



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಮಾರ್ಚ್ 19, 2017 (ಅಷಾಡ್ 28, ಶಕಾ ವರ್ಷ 1939)

ಭಾಗ-III Part-III	ಬೆಂಗಳೂರು, ಮಾರ್ಚ್ 19, 2017 (ಅಷಾಡ್ 28, ಶಕಾ ವರ್ಷ 1939)	ನಂ. ೯೯೯ No. 696
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ಸಾರಿಗೆ ಸಚಿವಾಲಯ

ಹಿಯರಿಂಗ್ ನೋಟೀಸ್ (Hearing Notice)

ನಂ. ಸಾರಿ 27 ಸಾಇನ್‌ನ್ಯಾ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 19-07-2017

ಮಾನ್ಯ ಕರ್ನಾಟಕ ಉಚ್ಚ ನ್ಯಾಯಾಲಯವು ರಿಟ್ ಅಜೆಗಳ ಸಂಖ್ಯೆ: 49713-49720/2015 ಹಾಗೂ ಇನ್ನಿತರೆ ಹಲವಾರು ಒಟ್ಟುಗೂಡಿಸಿದ (connected with) ಪ್ರಕರಣಗಳಲ್ಲಿ ದಿ: 03-05-2017 ರಂದು ನೀಡಿರುವ ಆದೇಶವನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಸಲುವಾಗಿ, ಸರ್ಕಾರವು ಈ ಹಿಂದೆ ಸಾರಿಗೆ ಯೋಜನೆಗಳನ್ನು ಮಾಪಾಡುವ ಮಾಡುವ ಕುರಿತು ಹೊರಡಿಸಲಾಗಿದ್ದ ಕರಡು ಅಧಿಸೂಚನೆಗಳಾದ;

- ಹೆಚ್‌ಟಿಡಿ 122 ಟೆಂಬಿ 1997 (ಭಾಗ) ದಿನಾಂಕ: 25-10-2002, (ಬಳಾರಿ ಸ್ತೀಮ್)
- ಹೆಚ್‌ಟಿಡಿ 75 ಟೆಂಬಿ 2001, ದಿ: 27-05-2003, (ಕೋಲಾರ ಸ್ತೀಮ್) ಮತ್ತು
- ಟಿಆರ್‌ಡಿ 280 ಟೆಂಬಿ 2004, ದಿ: 09-03-2007 (ಮೈಸೂರು, ಬೆಂಗಳೂರು, ಬಿ.ಟಿ.ಎಸ್, ಕನಕಪುರ ಮತ್ತು ತಿವಮೋಗ್ ಸ್ತೀಮ್)

ಇವುಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಮಾನ್ಯ ಸಾರಿಗೆ ಸಚಿವರಾದ ಶ್ರೀ. ರಾಮಲಿಂಗಾ ರೆಡ್ಡಿಯವರು ದಿ: 05-08-2017 ರಂದು ಬೆಳಿಗ್ಗೆ 11:00 ಗಂಟೆಗೆ ಕೊರಡಿ ಸಂಖ್ಯೆ: 419, 4ನೇ ಮಹಡಿ, ವಿಕಾಸಸೌಧ, ಡಾ॥ ಬಿ.ಆರ್. ಅಂಬೇಡ್ಕರ ವೀಧಿ, ಬೆಂಗಳೂರು, ಇಲ್ಲಿ ಮೇಲೆ ತಿಳಿಸಿರುವ ಮೂರು ಕರಡು ಮಾಪಾಡು ಯೋಜನೆಗಳ ಕುರಿತು ಸಾರ್ವಜನಿಕರು, ಖಾಸಗಿ ಬಸ್ ಮಾಲೀಕರು ಮತ್ತು ರಾಜ್ಯ ಸಾರಿಗೆ ಸಂಸ್ಥೆಗಳು ಮತ್ತಿತರು ಈಗಾಗಲೇ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಿಸಿರುವ ಆಕ್ಷೇಪಣೆ/ಸಲಹೆಗಳನ್ನು ಅಲಿಸಲಿದ್ದಾರೆ. ಆದ್ದರಿಂದ ಸಂಬಂಧಪಟ್ಟವರು ಅಂದು ನಡೆಯಲಿರುವ ಹಿಯರಿಂಗ್‌ಗೆ ಹಾಜರಾಗುವಂತೆ ಈ ಪ್ರಕಟಣೆಯ ಮೂಲಕ ತಿಳಿಯಪಡಿಸಲಾಗಿದೆ.

ಕೆ. ಬೀರೇಶ್  
ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿ,  
ಸಾರಿಗೆ ಇಲಾಖೆ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯಪಾಠ

ಭಾಗ-III Part-III	ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೧೯, ೨೦೧೭ (ಅಷಾಡ ೨೮, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Wednesday, July 19, 2017 (Ashada 28, Shaka Varsha 1939)	ನಂ. ೬೯೯ No. 699
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**OFFICE OF THE COMMISSIONER OF COMMERCIAL TAXES,**  
(Karnataka) Vanijya Terige Karyalaya, Gandhinagar, Bengaluru-560009

## CIRCULAR NO. 07/2017-18

**No.KSA/GST/CR.02/2017-18, dated:18.07.2017**

**Sub:** Deduction of Tax at Source (TDS) in respect of works contract executed prior to 30-06-2017 for which payments to be made from 01-07-2017 onwards and tax rate applicable for TDS- regarding

- Ref:**
- Letter dated: 03-07-2017 from Dr B.R. Ambedkar Corporation Ltd., (A Govt. of Karnataka undertaking), Bangalore
  - Letter dated: 12-07-2017 of Chief Engineer, National Highways, Bangalore
  - Letter dated: 14-07-2017 of Chief Engineer, State Highway Development Project, Bangalore

The Karnataka Value Added Tax, 2003, (herein after referred to as "KVAT Act"), was in force during the period from 01-04-2005 to 30-06-2017. The Karnataka Goods and Services Tax Act, 2017, (hereinafter referred to as the "KGST Act"), the Central Goods and Services Tax Act, 2017, (hereinafter referred to as the "CGST Act"), and Integrated Goods and Services Tax Act, 2017. (hereinafter referred to as the "IGST Act"), have come into force with effect from 1<sup>st</sup> July 2017.

2. Representations have been received from the Government Departments / Government Undertakings / Local Bodies etc. seeking clarification with regard to deduction of tax at source in respect of works contract executed upto 30-06-2017 for which payments are required to be made from 01-07-2017 onwards and applicability of tax rate for TDS under KGST Act and CGST Act.

3. The matter is examined and the following clarification is issued.

### A. Works Contract executed upto 30-06-2017 for which payments are pending from 01-07-2017:

Under the provisions of section 7(1) of the KVAT Act 2003, the sale of goods shall be deemed to have taken place at the time of transfer of title or possession or incorporation of goods in the course of execution of any works contract whether or not there is receipt of payment. Therefore, the Central Government, or any State Government, or an industrial, commercial or trading undertaking of the Central Government or of any State or any such undertaking in joint sector or any other industrial, commercial or trading undertaking or any other notified person or body or a local authority or a statutory body shall deduct out of amounts payable by them to a dealer in respect of any works contract executed upto 30-6-2017 for which payments are made from 01-07-2017 onwards. The

rate of tax is 4% or an amount equivalent to the tax payable by such dealer as may be permitted by the prescribed authority under the KVAT Act.

**B. Works Contract executed from 01-07-2017 onwards:**

Under the provisions of section 51 of the KGST /CGST Act, every Department or establishment of the Central Government or State Government or Local Authority or Government Agencies or such persons or category of persons as may be notified by the Government on the recommendations of the Council are required to deduct SGST at 1% and CGST at 1% from the payments made or credited to the supplier of taxable goods or services or both, where total value of such supply, under the contract which exceeds two lakhs fifty thousand rupees.

However, the provision relating to TDS under GST Law is put on hold for the time being and the same will be brought into force from a date which will be communicated later.

**RITVIK PANDEY**

Commissioner of Commercial Taxes,  
(Karnataka), Bengaluru



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು, ಶನಿವಾರ, ೨೨ ಜುಲೈ ೨೦೧೭ (ಅಷಾಡ ೩೧, ಶಕ ವರ್ಷ ೧೯೩೯)

ನಂ. ೧೦೬

No. 706

**OFFICE OF THE COMMISSIONER OF COMMERCIAL TAXES,**  
(Karnataka) Vanijya Terige Karyalaya, Gandhinagar, Bengaluru-560009

**ORDER NO. KSA.GST.CR.01/17-18 (01/2017-GST), Dated: 22.07.2017**

In exercise of the powers conferred under sub-rule (1) of rule 3 of the Karnataka Goods and Services Tax Rules, 2017, it is hereby notified that the period for filing intimation in **FORM GST CMP-01** under the said sub-rule is extended upto 16<sup>th</sup> August, 2017.

**RITVIK PANDEY**  
Commissioner of Commercial Taxes,  
(Karnataka), Bengaluru



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೨೨, ೨೦೧೭ (ಆಷಾಡ್ ಶಿಂಗ, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೨೦೨ No. 707
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ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ರ ರಾಜ್ಯ ಸಚಿವಾಲಯ

ಅಧಿಕಾರಿಗಳನ್ನು

ನಂ: ಗ್ರಾಂಪ 262 ಜಿಪ್‌ನಂ: 22-07-2017, ಬೆಂಗಳೂರು ದಿನಾಂಕ: 22-07-2017

ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರ ರಾಜ್ಯ ಅಧಿನಿಯಮ 1993ರ (ಚುನಾವಣೆಯನ್ನು ನಡೆಸುವ) ನಿಯಮಾವಳಿಯ 12ನೇ ನಿಯಮದ ಉಪನಿಯಮ (2)ರ ಮೇರೆಗೆ ರಾಜ್ಯ ಚುನಾವಣಾ ಆಯೋಗ, ಬೆಂಗಳೂರು ಇವರ ಆದೇಶದನ್ವಯ ಮರಣದ ಕಾರಣದಿಂದ ತೆರವಾಗಿದ್ದ ಮಂಡ್ಯ ಜಿಲ್ಲೆ, ಮಂಡ್ಯ ತಾಲ್ಲೂಕಿನ 8-ಕೊಪ್ಪ ಜಿಲ್ಲೆ ಪಂಚಾಯತ್ರ ಕ್ಷೇತ್ರಕ್ಕೆ ಮಂಡ್ಯ ಜಿಲ್ಲಾಧಿಕಾರಿಯವರು ದಿನಾಂಕ: 02-07-2017 ರಂದು ಉಪಚುನಾವಣೆ ನಡೆಸಿದ್ದು, ಸದರಿ ಜಿಲ್ಲೆ ಪಂಚಾಯತ್ರಿಗೆ ಕ್ಷೇತ್ರಕ್ಕೆ ನಡೆಸಲಾದ ಸಾರ್ವತ್ರಿಕ ಚುನಾವಣೆಯ ಫಲಿತಾಂಶವನ್ನು ಸಂಬಂಧಪಟ್ಟಿ ಚುನಾವಣಾ ಅಧಿಕಾರಿಗಳು ಘೋಷಿಸಿರುವುದರಿಂದ,

1993ರ ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರ ರಾಜ್ಯ ಅಧಿನಿಯಮ(1993ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ, 14) 172ನೇ ಪ್ರಕರಣದಿಂದ ಪಡೆತ್ತಿರುವ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರವು ಮಂಡ್ಯ ಜಿಲ್ಲೆ ಪಂಚಾಯತ್ರಿಗೆ ಆಯ್ದಿಯಾದ ಸದಸ್ಯರ ಹೆಸರನ್ನು ಈ ಕೆಳಗೆ ನಮೂದಿಸಿದಂತೆ ಅಧಿಕಾರಿಗಳಿಗೆ ಘೋಷಿಸಿರುವುದರಿಂದ,

ಕ್ರಮ ಸಂಖ್ಯೆ	ಜಿಲ್ಲೆ ಪಂಚಾಯತ್ರಿ ಕ್ಷೇತ್ರದ ಕ್ರಮ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ನಿಗದಿಪಡಿಸಿದ ಮೀಸಲಾತಿ/ವರ್ಗ	ಚುನಾಯಿತರಾದ ಸದಸ್ಯರುಗಳ ಹೆಸರು ಮತ್ತು ವಿಳಾಸ	ಪ್ರತಿನಿಧಿಸಿದ ರಾಜಕೀಯ ಪಕ್ಷ / ಸ್ವತಂತ್ರ
1	08-ಕೊಪ್ಪ	ಹಿಂದುಳಿದ ಅ ವರ್ಗ (ಮಹಿಳೆ)	ಶ್ರೀಮತಿ ರೇಣುಕ ರಾಮಕೃಷ್ಣ ಕೋಂದಿ   ರಾಮಕೃಷ್ಣ, ಕೆ.ಇ.ಬಿ ರಸ್ತೆ, ಕೊಪ್ಪ, ಮದ್ರಾರು ತಾಲ್ಲೂಕು.	ಜನತಾದಳ (ಜಾತ್ಯಕೀಯ)

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆಜ್ಞಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಪ. ದೇವಸಹಾಯಂ  
ಸರ್ಕಾರದ ಅಧಿನ ಕಾರ್ಯದರ್ಶಿ(ಜಿ.ಪಂ)(ಪ್ರ)  
ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂ.ರಾಜ್ಯ ಇಲಾಖೆ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಾಂಶ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಪ್ಪ ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ - III Part - III	ಬೆಂಗಳೂರು, ಮಂಡಳಾರ, ಜುಲೈ ೨೫, ೨೦೧೭ (ಶ್ರವಣ ೩, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Tuesday, July 25, 2017 (Shravana 3, Shaka Varsha 1939)	ನಂ. ೨೦೮ No. 708
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## URBAN DEVELOPMENT SECRETARIAT

## ERRATUM

NO. UDD 89 MNX 2015, Bengaluru, Dated: 25.07.2017.

Where as a Final Notification No. UDD 426 MNJ 2011, Dtd: 18/06/2014 was issued under section 19(1) of BDA Act for “**Re-modified Scheme of ARKAVATHY LAYOUT**” and published in the Karnataka Gazette Dtd: 18/06/2014 in part – III at pages 1 to 58. Several representations have been received from the interested persons / Khathedars / Anubhavadhars for rectifying the mistakes in the said Final Notification. The following correction in the column of the Khatedars / Anubhavadars in the Final Notification No. UDD 426 MNJ 2011, dated : 18/06/2014 issued under section 19(1) of BDA Act for the layout called “**Re-modified Scheme of ARKAVATHY LAYOUT**” shall be read as follows :

FOR		READ AS
S.I.No.	Name of the Khathedhar's / Anubhavadhars	Name of the Khathedhar's / Anubhavadhars
244	N Ramu S/o Narayanappa, Sharadhamma W/o Munishamappa.	Sharadamma W/o Munishamappa
362	Joseph S/o late Anthonyappa, R.S Charan Kumar S/o Sriramulu, Kanikswamy S/o Late Sowrappa.	Joseph S/o late Anthonyappa, Kanikswamy S/o Late Sowrappa

	<b>FOR</b>	<b>READ AS</b>
<b>Sl.No.</b>	<b>Name of the Khathedhar's / Anubhavadhars</b>	<b>Name of the Khathedhar's / Anubhavadhars</b>
<b>1023</b>	Bachappa S/o Munishamappa, Krishnappa S/o Munishamappa, Papamma W/o Krishnappa, Yashoda S/o Krishnappa.	Krishnappa S/o Munishamappa, Papamma W/o Krishnappa, Yashoda S/o Krishnappa
<b>1024</b>	Bachappa S/o Munishamappa, Papamma W/o Krishnappa.	Papamma W/o Krishnappa
<b>1025</b>	Channamma W/o Pillappa, Bhachappa.	Channamma W/o Pillappa

By order and in the name of the Governor of Karnataka

**N. Narasimhamurthy**  
Under Secretary to Government  
Urban Development Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಾಂಗ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಪ್ಪ ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ - III Part - III	ಬೆಂಗಳೂರು, ಮಂಗಳಾರ, ಜುಲೈ ೨೫, ೨೦೧೭ (ಶ್ರಾವಣ ೩, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Tuesday, July 25, 2017 (Shravana 3, Shaka Varsha 1939)	ನಂ. ೨೦೬ No. 709
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## URBAN DEVELOPMENT SECRETARIAT

### FINAL NOTIFICATION

NO. UDD 184 MNX 2017, Bengaluru, Dated: 21.07.2017.

Where as the **Government of Karnataka** has Sanctioned scheme for the formation of "**Construction / Development of Service Road and Fly over at Outer Ring Road- Magadi Junction Between 56.70 km to Tumkur Road Junction at 61.93 Km.**" in Laggere Village, Yeshavanthpura Hobli, Bangalore North Taluk by the Bangalore Development Authority vide Government Order No.UDD 184 MNX 2017, dated: 11 July 2017

Now, therefore in exercise of the powers conferred under sub-section (1) of Section 19 of the Bangalore Development Authority Act 1976 (Karnataka Act No.12 of 1976), the Government of Karnataka hereby declares that the lands specified in the schedule noted below be the same a little more or less or need for public purpose to wit for the formation of "**Construction / Development of Service Road and Fly over at Outer Ring Road- Magadi Junction Between 56.70 km to Tumkur Road Junction at 61.93 Km**" in Laggere Village, Yeshavanthpura Hobli, Bangalore North Taluk And in exercise of the powers conferred by clause-(C)of the Sec.3 and Sec.19 of the 'THE RIGHT TO FAIR COMPENSATION AND TRANSPARENCY IN LAND ACQUISITION, REHABILITATION AND RESETTLEMENT ACT, 2013(Central Act No. 30 of 2013, w.e.f. 1/1/2014) Read with Sec.36 of the Bangalore Development Authority Act 1976. The Land Acquisition Officer, Bangalore Development Authority, Bangalore, is hereby appointed to perform the functions of the Deputy Commissioner(Land Acquisition), under the said Land Acquisition Act and directed to take order for the acquisition of the said lands.

A plan of the lands is kept in the office of the Land Acquisition Officer of the Bangalore Development Authority, T.Chowdaiah Road, Bangalore-560020, for information.

The Preliminary Notification for the formation of "**Construction / Development of Service Road and Fly over at Outer Ring Road- Magadi Junction Between 56.70 km to Tumkur Road Junction at 61.93 Km**" in Laggere Village, Yeshavanthpura Hobli, Bangalore North Taluk has been published in the Karnataka Gazette dated: 16.06.2016 in part-3 at page No.2166 vide Notification No. BDA/Commr/LA(LAO)/11/2016-17, Bangalore, date:21<sup>st</sup> April 2016, this Final Notification has been issued the Layout called formation of "**Construction / Development of Service Road and Fly over at Outer Ring Road- Magadi Junction Between 56.70 km to Tumkur Road Junction at 61.93 Km**" in Laggere Village, Yeshavanthpura Hobli, Bangalore North Taluk.

### Schedule

<b>Dist:</b> Bangalore			<b>Taluk:</b> -Bangalore North			<b>Hobli:</b> Yeshwanthapur		<b>Village:</b> Laggere					
Sl. No.	Name of the Khathedars Smts/ Sriyuths	Name of the Anubhavadars Smts/ Sriyuths	Sy No	Site No.	Extent Asper Records in Sq.ft.	Nature of Title	<b>Total Extent Required in Sq.ft.</b>	Details of Structur e & Title	Bounded by				
									East	West	North	South	
1			2	3	4	5	6	7	11	12	13	14	15
1.	<b>Bynna S/o Shivappa</b>	Vanaja w/o B. Krishnappa.	90/1	1	40x25=1000	(Gift Deed)	<b>645-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 2 (Markand ayya)	Site No. 94 (Yashoda)	
2.		T. Markandaiah S/o Late Anjaneya Naidu	90/1	2	40x30=1200	<u>(Absolute Saledeed)</u>	<b>720-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 3 (Rama krishna)	Site No. 1 (Vanaja)	
3.		M. Ramakrishna S/o Muniswamy	90/1	3	40x30=1200	<u>(Absolute Saledeed)</u>	<b>825-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 4 (R. Bhagya)	Site No. 2 (Markanda yya)	
4.		R. Bhagya w/o Late Basavaraju	90/1	4	<u>15x40=600</u>	<u>(Absolute Saledeed)</u>	<b>446-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 5 (Jayalaks hmi)	Site No. 3 (Ramakrish na)	
5		Karab (Halla)	90/1	-	<u>4356</u>		<b>1086-00</b>		Road	Remainin g Site			
6		Jayalakshmi w/o Late Muniswamy	90/1	5	<u>35x45 2 x 40 =1600 Karab= 640 = 1600-640= 960</u>	(G.P.A.)	<b>960-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Halla	Remaing Land in Site No. 4 (R.Bhagya)	
7.		N. Dayakar S/o Narayanaswamy	90/1	82	30x45=1350		<b>720-00</b>	RCC House	Remaini ng land Site No. 82	Road	Road	Remaining land of Sy.No. 90/1 (V.H. Patel)	
8		D. Subramnai, s/o Doreswamy Naidu .D. Shankar S/o Doreswamy	90/1	87, 88	40x45= 1800	(G.P.A)	<b>450-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 88 (Malati)	Road	

9	<b>Bainna S/o Shivappa</b>	No Katedar/Anubavadar	90/1	89	30x45= 1350	(G.P.A.)	<b>300-00</b>	Vacant Site	Road	Sy.No. 91/1	Site No. 90 (K.B. Malati)	Site No. 88 (D. Shankar0
10		K.B. Malathi C/o K.L. Ramesh	90/1	90	45x30= 1350	(Gift Deed)	<b>330-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No91 (Kunjam ma)	Site No. 89
11.		Smt. N. Kunjaram w/o M. Nallappan	90/1	91	42x30= 1260	(G.P.A.)	<b>375-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 92 (Venkata mma)	Site No. 90 (Malati)
12.		Venkatamma w/o Late Narasimaiyah	90/1	92	42x30= 1260	(G.P.A.)	<b>420-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 93 (Shantha mma)	Site No. 91 (Kunjamma )
13.		Shanthamma D/o Late Ratnamma	90/1	93	40x20=800	(G.P.A.)	<b>330-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Viswa Mohan	Venkatam ma
14.		S. Viswa Mohan S/o B. Subramani	90/1	93/A	40x20=800	(G.P.A.)	<b>360-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Site No. 94 (Yashoda)	Shantham ma
15.	<b>Srinivasa murthy S/o Venkatesha iah</b>	V. Yashoda w/o Vasegowda	90/1	94	40x40=1600	(Absolute Saledeed)	<b>760-00</b>	A.C. Sheet House	Road	Sy.No. 91/1	Vanaja	Viswa Mohan
16.		Girish. H. S/o Huchegowda	91/2	24 A	30x13=390	(Absolute Saledeed)	<b>143-00</b>	A.C. Sheet House	Halla	Sy.No. 91/2 (Site No. 24)	Road	Kaluve
17.		S. Murugesh S/o Late Shambashivan	91/2	44	<u>65+50 x30+40</u> <u>2 2</u> <u>=2362</u>	(Absolute Saledeed)	<b>425-00</b>	A.C. Sheet House	Krishna ppa, Srinivas appa.	Site No. 43 (S. Raya)	Road	Road
18.		Shashikumar. K. S/o Kempa Hanumaiah	91/2	48	<u>43+40 x71x53</u> <u>2 2</u> <u>=2573.00</u>	(Absolute Saledeed)	<b>431-00</b>	A.C. Sheet House	Site No. 49 (Bridge)	Site No. 47 (Remainin g Site 47 & Sy.No. 91/1)	Halla	Road
19.		Eera S/o Tagadegowda	91/2	49	<u>71+85</u> <u>2 x 40</u> <u>=3120</u>	(G.P.A.)	<b>2970-00</b>	A.C. Sheet House	Site No. 50 (Bridge)	Site No. 48 (Shashiku mar)	Halla	Road
20	Smt. Puspalatha W/o Late Venkata ramu	H.D. Srinivasaiah S/o Late Dasegowda	91/1	56	<u>32+30</u> <u>2 x34</u> <u>=1054</u>	(Absolute Saledeed)	<b>930-00</b>	A.C. Sheet House	Site No. 55 (Bridge)	Site No. 44 (Muruges h)	Road	Site No. 57 (H.D.Krish nappa)

21.		H.D. Krishnappa S/o Late Dasegowda	91/1	57	$\frac{32+30}{2} \times 30 = 930$	(G.P.A)	<b>960-00</b>	Vacant Site	Site No. 58 (Bridge)	Site No. 44 (Muruges h)	Site No. 56 (H.D. Srinivasai ah)	Road
22.		Lalithamma w/o Narayanaswamy	91/1	66	$\frac{32+30}{2} \times 34 = 1054$	(GPA)	<b>800-00</b>	A.C. Sheet House	Site No. 65 (Bridge)	Site No. 67 (Lalitham ma)	Road	Site No. 73
23.		Rukmani w/o Hanumantha Rao	91/1	67	30x40=1200	(GPA)	<b>320-00</b>	A.C. Sheet House	Site No. 66 (Lalithamma)	Remaining land of Sy.No. 91/1 (Rukmini)	Remaining land of Sy.No. 91/1, Road	Site No. 72 (Salma Banu)
24.		Salma Banu w/o Ahmedd. Jan Pasha	91/1	72	30x40=1200	(Absolute Saledeed)	<b>520-00</b>	Vacant Site	Site No. 73	Site No. 71 (Byatrayappa) Remaining Site No. 72.	Site No. 67 (Rukmini)	Road
25.		No Anubavadar	91/1	73	30x40=1200	(G.P.A.)	<b>1200-00</b>	Vacant Site	Remaining Site No. 73 (Bidge)	Site No. 72 (Salma Banu)	Site No. 66 (Lalitham ma)	Remaining Sy.No. 91/1 (Bidge)
TOTAL EXTENT						0.15.00Guntas = 16,340 Sft Kharab = <u>01,086Sft</u> <b>Total Extent. = 17,426Sft. (0.16.00Guntas)</b>						

By order and in the name of the Governor of Karnataka

**N. Narasimhamurthy**  
Under Secretary to Government  
Urban Development Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-III Part-III	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೭, ೨೦೧೭ (ಶ್ರಾವಣ ೫, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 27, 2017 (Shrawana 5, Shaka Varsha 1939)	ನಂ. ೪೮೭ No. 712
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ಚಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ, ಚಿತ್ರದುರ್ಗ  
ಅಂತಿಮ ಅಧಿಸೂಚನೆ

ನಂ. ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(6)/2016.17, ದಿನಾಂಕ: 24.07.2017

ಸರ್ಕಾರದ ನಿರ್ದೇಶನ ಮತ್ತು ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಯುದ್ದಿಡಿ 4 ಎಂಎಲ್.ಆರ್. 2014 ದಿನಾಂಕ: 15/02/2014ರಲ್ಲಿನ ಮಾರ್ಗಸೂಚಿಯನ್ನಾಯ ನಗರ ಸ್ಥಳೀಯ ಸಂಸ್ಥಾಗಳಿಗೆ ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣ ಮಾಡಬೇಕಾಗಿರುತ್ತದೆ. ಸದರಿಯನ್ನಾಯ ಚಿತ್ರದುರ್ಗ ನಗರಸಭೆಗೆ 35 ವಾರ್ಡಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣ ಮಾಡಿ ವಾರ್ಡ ಮತ್ತು ವಾರ್ಡನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ರಚಿಸಿ ಕರಡು ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ:ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(6)/2016.17 ದಿನಾಂಕ: 09.06.2017ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಧಿಸೂಚನೆಯನ್ನು ವಿಶೇಷ ರಾಜ್ಯ ಪತ್ರದ ಭಾಗದ III ಸಂಖ್ಯೆ 496 ದಿನಾಂಕ: 09.06.2017 ರಂದು ಪ್ರಕಟಿಸಿ ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಸಾರ್ವಜನಿಕರು ಯಾವುದೇ ಆಕ್ಷೇಪಣ ಅಥವಾ ಸಲಹೆ ಸೂಚನೆಗಳಿಗೆ ಈ ಕರಡು ಅಧಿಸೂಚನೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 15 ದಿನದೊಳಗಾಗಿ ಲಿಖಿತವಾಗಿ ಸಲ್ಲಿಸಲು ಆಹ್ವಾನಿಸಲಾಗಿತ್ತು. ಸದರಿ ಅಧಿಸೂಚನೆಗೆ ಆಕ್ಷೇಪಣ ಅಥವಾ ಸಲಹೆ ಸ್ವೀಕೃತವಾಗಿದ್ದು, ಪರಿಶೀಲಿಸಿ ಇತ್ತುದ್ದರ್ವಾಪಡಿಸಲಾಗಿದೆ.

ಪ್ರಯೋಗ ಕರ್ನಾಟಕ ಪೌರಸಭೆಗಳ ಅಧಿನಿಯಮ 1964ರ ಪ್ರಕರಣ 13 ರಂತೆ ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ, ಚಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ ಆದ ನಾನು ಚಿತ್ರದುರ್ಗ ನಗರಸಭೆಗೆ 35 ವಾರ್ಡಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಅನುಬಂಧ ಅಂಕಣ (2)ರಲ್ಲಿ ಘೋಷಿಸಿರುವ ವಾರ್ಡಗಳಿಗೆ ಅಂಕಣ (4)ರಲ್ಲಿ ವಾರ್ಡನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ಅಧಿಸೂಚನೆಯನ್ನು ಪ್ರಕಟಿಸಿರುತ್ತೇನೆ.

ಅನುಬಂಧ

ಕ್ರ. ಸಂ.	ವಾರ್ಡ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
1	ವಾರ್ಡ 1	ಉತ್ತರ	ವಿಜಯಲಪ್ಪೆ ಮೆಡಿಕಲ್ ಹಿಂಭಾಗದ ಗಲ್ಲಿಯಿಂದ ಮೊವೆಕ್ಕೆ ಮುಂದುವರೆದು ವಿಜಯಲಪ್ಪೆ ಮೆಡಿಕಲ್ ಹಿಂಭಾಗದ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಜೋಗಿಮಟ್ಟಿ ರಸ್ತೆಯ ಪಕ್ಕದಲ್ಲಿರುವ ಮಾಡಿ ಸದಸ್ಯರಾದ ಶ್ರೀ ಮಂಜುನಾಥ ರವರ ಜಮೀನಿನಿಂದ ಪಕ್ಕಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ, ಕೊಳಚೆ ನಿಮೂರಲನಾ ಮಂಡಳಿಯ ಶೋಚಾಲಯದ ವರೆಗೆ.
		ಮೊವೆ	ವಿಜಯಲಪ್ಪೆ ಮೆಡಿಕಲ್ ಸ್ಕೋರ್ಸನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಜೋಗಿಮಟ್ಟಿ ರಸ್ತೆಯಲ್ಲಿ ಮುಂದುವರೆದು ಮಾಡಿ ಸದಸ್ಯರಾದ ಶ್ರೀ ಮಂಜುನಾಥ ರವರ ಜಮೀನಿನಲ್ಲಿ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಪಕ್ಕಿಮೆ	ವಿವೇಕಾನಂದ ನಗರದ ದಲ್ಲಿರುವ ಕೊಳಚೆ ನಿಮೂರಲನಾ ಮಂಡಳಿಯ ಶೋಚಾಲಯದಿಂದ ಅಗಳು ಪ್ರದೇಶದಲ್ಲಿ ಮುಂದುವರೆದು ಮೊವೆಕ್ಕೆ ತಿರುಗಿ ಹೋಟೆಲ್ ಶಿವರಾಂ ರವರ ತೆಂಗಿನ ತೋಟದಲ್ಲಿ ಮುಂದುವರೆದು ಉತ್ತರಕ್ಕೆ ತಿರುಗಿ ಶೃಂಗೇರಿ ಮತದ ಸರ್ಕಾರೀಗೆ ನಿಂತು, ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಪೂರ್ಣ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಷುಗಳು	ಚಕ್ಕು ಬಂದಿ
			ಸಾಗಿ ಮೂರ್ವೋಽತ್ತರ ದಿಕ್ಕಿನಲ್ಲಿ ಸಾಗಿ ಮೂರ್ವಾಕ್ಷೇ ತಿರುಗಿ ಲಾಟರಿ ಶೌಕತ್ತಾ ಅಲ್ಲಿ ಮನೆ ಪಕ್ಕದ ಗಲ್ಲಿ, ಮುಖೀನ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ವಿಜಯಲಕ್ಷ್ಮಿ ಮಡಿಕಲ್ಲು ಹಿಂಭಾಗದ ಗಲ್ಲಿಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
2	ವಾದ್ಯ 2	ಉತ್ತರ	ಮಸೀದಿ ಮುಂಭಾಗದಿಂದ ಫೀಲ್ರ್‌ ಹೌಸ್ ರಸ್ತೆಯ ಮೂಲೆಯಿಂದ ಮೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬಲಭಾಗದ ಮನೆಗಳನ್ನೊಳಗೊಂಡು ಕರುವಿನಕಟ್ಟಿ ಸರ್ಕಲ್ ವೃತ್ತದಿಂದ ಮುಂದೆ ಸಾಗಿ ಬುಡ್ಡಮೈನ ದೇವಸ್ಥಾನದ ಮೂಲೆಗೆ ನಿಲ್ಲುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಸಿ.ಟಿ.ತಿಪ್ಪೇಸ್ವಾಮಿಯವರ ಲೇಟೆಟ್ ಮೂರ್ವಾ ಭಾಗದಲ್ಲಿರುವ ನೀರಿನ ತೊಟ್ಟಿಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಹೊರಟು ಸೃಜನದ ರಸ್ತೆಯಿಂದ ಕಾಮನಬಾವಿ ರಸ್ತೆ ಮುಖಾಂತರ ಸಾಗಿ ಕಾಮನಬಾವಿ ಬಡಾವಣೆಯಲ್ಲಿ ಬರುವ ಕಾಳಮೈನ ದೇವಸ್ಥಾನದ ಮುಂಭಾಗದ ಮೂಲೆಯವರೆಗೆ ಬಂದು ನಿಲ್ಲುತ್ತದೆ.
		ಮೂರ್ವಾ	ಸಣ್ಣಗರದಿ ರಸ್ತೆಯಲ್ಲಿ ಬರುವ ಬುಡ್ಡಮೈನ ದೇವಸ್ಥಾನದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಶೃಂಗೇರಿ ಮತದ ಪಕ್ಕದಲ್ಲಿರುವ ರಸ್ತೆಯಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಶಿವರಾಂ ಶೋಽದ ಪಕ್ಕದ ರಸ್ತೆಯಿಂದ ಸಿ.ಟಿ.ತಿಪ್ಪೇಸ್ವಾಮಿ ಲೇಟೆಟ್‌ನಲ್ಲಿರುವ ನೀರಿನ ತೊಟ್ಟಿಯವರೆಗೆ ಬಂದು ನಿಲ್ಲುತ್ತದೆ.
3	ವಾದ್ಯ 3	ಪಶ್ಚಿಮ	ಕಾಳಿಕಾಂಬ ದೇವಸ್ಥಾನದ ಮುಂಭಾಗದಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ನೇರವಾಗಿ ಬಂದು ಮಸೀದಿ ಮುಂಭಾಗದ ಫೀಲ್ರ್ ಹೌಸ್ ರಸ್ತೆಗೆ ನಿಲ್ಲುತ್ತದೆ.
		ಉತ್ತರ	ನಗರಸಭೆಯ ಫೀಲ್ರ್ ಹೌಸ್ ಕಟ್ಟಡದಿಂದ ಮೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಕೋಟೆ ಶಾಲೆ ಹಿಂಭಾಗದ ರಸ್ತೆಯ ಎಡಕ್ಕೆ ತಿರುಗಿ ಈಶ್ವರಪ್ಪನ ಮನೆಯಿಂದ ಗಘೂರ್ ಸಾಬ್ ಮನೆ ಮೂಲಕ ಮೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಕಂಬಳಿ ಬೀದಿ ಮೂಲಕ ಚಚ್ಚ್ ಮುಂಭಾಗದಿಂದ ಸಾಗಿ ತಿಪ್ಪನಪಟ್ಟಮೈನ ದೇವಸ್ಥಾನದವರೆಗೆ ( ಬಲಭಾಗದ ಮನೆಗಳು)
		ದಕ್ಷಿಣ	ಮಹಾರಾಣಿ ಕಾಲೇಜ್ ದಕ್ಷಿಣಕ್ಕೆ ಇರುವ ಹಾಸ್ಪೇಲ್ ಹಿಂಭಾಗದ ಗುಡ್ಡದ ಪಕ್ಕಕೆ ಇರುವ ಅಗಳುನಿಂದ ಮೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಕಾಮನಬಾವಿ 4ನೇ ಕ್ರೂಸ್ ಮೂಲೆಗಿರುವ ರೂಪ ಇವರ ಮನೆವರೆಗೆ ಮತ್ತು ಮುಂದುವರೆದು ಕರುವಿನಕಟ್ಟಿ ಸರ್ಕಲ್ ದೇವೇಂದ್ರಪ್ಪ ಇವರ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಫೀಲ್ರ್ ಹೌಸ್ ಮಸೀದಿ ಕಾಂಪ್ಲೆಕ್ಸ್ ವರೆಗೆ
4	ವಾದ್ಯ 4	ಮೂರ್ವಾ	ಮಹಾರಾಣಿ ಕಾಲೇಜ್ ಹತ್ತಿರವಿರುವ ಪ್ರಿನ್ಸಿಪಲ್ ಬೋರಿಯ್ ಮನೆಯಿಂದ ಕೋಟೆ ರಸ್ತೆಯ ಮೂಲಕ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ನಗರಸಭೆ ಫೀಲ್ರ್ ಹೌಸ್‌ಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ. ಮತ್ತು ಕರುವಿನ ಕಟ್ಟಿ ಸರ್ಕಲ್‌ನಲ್ಲಿರುವ ದೇವೇಂದ್ರಪ್ಪನ ಬಿಲ್ಲಿಂಗ್ ಮೂಲೆಯಿಂದ ತಿಪ್ಪನಪಟ್ಟಮೈನ ದೇವಸ್ಥಾನದ ಮೂಲೆಯವರೆಗೆ.
		ಉತ್ತರ	ಮನೋರಂಜನ್ ಅಪ್ಪಿಕಲ್‌ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ರಂಗಯ್ಯನ ಬಾಗಿಲು ಮೂಲಕ ನೇರವಾಗಿ ಉಚ್ಚಂಗಿ ಎಲ್ಲಮೈನ ದೇವಸ್ಥಾನದ ಎಡಭಾಗದ ಗಲ್ಲಿಯಿಂದ ಸಾಗಿ ಗುಡ್ಡಕ್ಕೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಕೋಟೆ ರಸ್ತೆಯಲ್ಲಿ ಮಡಿವಾಳರ ಮಲ್ಲಪ್ಪನ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಫೀಲ್ರ್ ಹೌಸ್ ಮುಂಭಾಗಕ್ಕಿರುವ ಶಾಲೆ ಕೌಂಪೋಂಡ್ ಮತ್ತು ಶಾಲೆ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಕಂಬಳಿ ಬೀದಿ ರಸ್ತೆಯಲ್ಲಿರುವ ಖಾಸಗಿ ಶಾಲೆ ಮೂಲೆಯಿಂದ ಮೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಚಚ್ಚ್ ಮೂಲಕ ಮಾಡಿದೇವಸ್ಥಾನದ ಪಕ್ಕದಿಂದ ಸಾಗಿ ದೊಡ್ಡಗರಡಿ ರಸ್ತೆ ಮೂಲಕ ಹಾಗೂ ಕರುವಿನಕಟ್ಟಿ ಸರ್ಕಲ್ ಮೂಲಕ ಈ ಎಡಭಾಗದ ಎಲ್ಲಾ ಮನೆಗಳು ಒಳಗೊಂಡು ಲಾಟರಿ ಮಾರಾಟಗಾರರಾದ ಶೌಕತ್ತಾ ಅಲ್ಲಿ ಮನೆಯವರೆಗೆ.
		ಪಶ್ಚಿಮ	ರಂಗಯ್ಯನ ಬಾಗಿಲು ಬಳಿ ಯಾದವ ಹಾಸ್ಪೇಲ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ಮನೋರಂಜನ್ ಅಪ್ಪಿಕಲ್‌ನ ಕಟ್ಟಡದ ಪಕ್ಕದಲ್ಲಿರುವ ಕನ್ನರ್ವೆನ್ನೀಯಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಲಾಟರಿ ಮಾರಾಟಗಾರರಾದ ಶೌಕತ್ತಾ ಅಲ್ಲಿ ಮನೆಯವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಗುಡ್ಡದ ಹಾಗೂ ಬೆಟ್ಟದ ಪ್ರದೇಶ

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
5	ವಾದ್ಯ 5	ಉತ್ತರ	ವಾಸವಿ ಸರ್ಕಾರ್ ಮೂಲೆಯಲ್ಲಿರುವ ಕೋಆಪರೇಟಿವ್ ಸೊಸೈಟಿ ಕಾಂಪ್ಲೆಕ್ಸ್ ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ, ಎಸ್.ಬಿ.ಎಂ.ಸರ್ಕಾರ್ ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಗಾಂಡಿ ಸರ್ಕಾರ್‌ನವರೆಗೆ ಬಾಲಾಜಿ ಬೇಕರಿ ಕಟ್ಟಡದ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಸ್ಥಾಮಿ ವಿವೇಕಾನಂದ ಪಾರ್ಕ್ ಮುಂಭಾಗವಿರುವ ಐ.ಎಂ.ಎ.ಬಿಲ್ಲಿಂಗ್‌ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ರಂಗಯ್ಯನ ಬಾಗಿಲು ಮುಖಿಂತರ ಮಾಜಿ ನಗರಸಭಾ ಸದಸ್ಯರಾದ ಶ್ರೀ ಎನ್.ಕಲ್ಲಪ್ಪ ಮನೆಯಿಂದ ನೇರವಾಗಿ ಸಾಗಿ ಉಚ್ಚಂಗಿಯಲ್ಲಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮುಂಭಾಗವಿರುವ ವೆಂಕಟರಮಣ ಶೆಟ್ಟಿ ಮನೆಯವರೆಗೆ.
		ಮೂರ್ವ	ಐ.ಎಂ.ಎ.ಬಿಲ್ಲಿಂಗ್ ಮುಖಿಂತರ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಮದಕರಿ ವೃತ್ತದ ಮೂಲಕ ಕೃಷ್ಣರಾಜೇಂದ್ರ ಗ್ರಂಥಾಲಯದ ರಸ್ತೆಯ ಮೂಲಕ ವಾಸವಿ ವೃತ್ತದಲ್ಲಿ ಬರುವ ಕೋ ಆಪರೇಟಿವ್ ಸೊಸೈಟಿ ಕಟ್ಟಡದ ಮೂಲೆಯವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಉಚ್ಚಂಗಿಯಲ್ಲಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮುಂಭಾಗದಲ್ಲಿರುವ ವೆಂಕಟರಮಣ ಶೆಟ್ಟಿ ಇವರ ಕಟ್ಟಡದಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಚಿಕ್ಕಪೇಟೆ ಮುಖ್ಯರಸ್ತೆ ಮುಖೀನ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಅನೆಬಾಗಿಲು ನೇರವಾಗಿ ಸಾಗಿ ಗಾಂಡಿ ಸರ್ಕಾರ್ ಮೂಲೆಯಲ್ಲಿರುವ ಬಾಲಾಜಿ ಬೇಕರಿ ಕಟ್ಟಡದ ವರೆಗೆ.
6	ವಾದ್ಯ 6	ಉತ್ತರ	ಅನೆಬಾಗಿಲು ಮುಂಭಾಗದ ಶ್ರೀನಿವಾಸ ಶೆಟ್ಟಿಯವರ ಮನೆಯಿಂದ ಬುರುಜಿನ ಹಟ್ಟಿ ಸರ್ಕಾರ್ ವರೆಗೆನ ಕೋಟಿ ಅಂಜನೇಯಸ್ಥಾಮಿ ದೇವಸ್ಥಾನದ ರಸ್ತೆ.
		ದಕ್ಷಿಣ	ಉಚ್ಚಂಗಿ ಯಲ್ಲಮ್ಮೆನ ದೇವಸ್ಥಾನದ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಗುಡ್ಡದ ಪ್ರದೇಶ ಎಸ್.ಬಿ.ಬಿಸ್ ಮಾಲೀಕರ ಮನೆಯ ಹಿಂಭಾಗದ ಗುಡ್ಡದ ಪ್ರದೇಶದೊಂದಿಗೆ ಪಂಡಿತ ಅನಸೂಯಮ್ಮೆ ಮನೆಯ ಪಕ್ಷದಲ್ಲಿರುವ ಗುಡ್ಡದವರೆಗೆ.
		ಮೂರ್ವ	ಉಚ್ಚಂಗಿಯಲ್ಲಮ್ಮೆನ ದೇವಸ್ಥಾನದಿಂದ ಅನೆಬಾಗಿಲು ಕಡೆ ಹೋಗುವ ಚಿಕ್ಕಪೇಟೆ ಮುಖ್ಯರಸ್ತೆ , ಅನೆಬಾಗಿಲು ಮುಂಭಾಗದಲ್ಲಿರುವ ಶ್ರೀನಿವಾಸ ಶೆಟ್ಟಿಯವರ ಮನೆಯವರೆಗೆ
		ಪಶ್ಚಿಮ	ಬುರುಜಿನ ಹಟ್ಟಿ ಸರ್ಕಾರ್ ನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಶ್ರೀ ಹೆಚ್.ಮಂಜಪ್ಪನವರ ಮನೆ ಮತ್ತು ಉಪ್ಪನೀರು ಬಾವಿ ರಸ್ತೆ ಹಾಗೂ ಮೂರ್ವಕ್ಕೆ ತಿರುಗಿ ಆಸ್ತ್ರಾಂತಿಕಯಿಪ್ಪ ಮನೆಯವರೆಗೆ.
7	ವಾದ್ಯ 7	ಉತ್ತರ	ಸಿಹಿನೀರು ಹೊಂದ ಮುಂಭಾಗದ ಅರಳಿಮರದಿಂದ ಮೂರಾಭಿಮುಖಿವಾಗಿ ಉದ್ರ್ಫುಲ್ಲ ಶಾಲೆ, ದುಗಾರ್ ಪೈನಾನ್ಸ್ ನಿಂಗಪ್ಪ ಮನೆ ಮುಖೀನ, ಬನಶಂಕರಿ ದೇವಸ್ಥಾನದ ಮೂಲೆ ಕಟ್ಟಡದ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಮೂರ್ವಕ್ಕಿರುವ ಕೋಟಿ ಸರಹದ್ದು ಗೋಡೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಎಡಭಾಗಕ್ಕೆ ಬರುವ ಗುಡ್ಡದ ಪ್ರದೇಶ.
		ಮೂರ್ವ	ಬುರುಜಿನ ಹಟ್ಟಿ ಸರ್ಕಾರ್ ನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಸಿದ್ಧರಾಮೇಶ್ವರ ಸರ್ಕಾರ್‌ನಲ್ಲಿ ಬರುವ ಸರ್ಕಾರಿ ಶಾಲೆಯ ಕಟ್ಟಡಕ್ಕೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಸಿಹಿ ನೀರು ಹೊಂದದ ಮುಂಭಾಗ ಅರಳಿ ಮರದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಗೋಪಾಲ ಸ್ಥಾಮಿ ದೇವಸ್ಥಾನದನದ ಬಾಗಿಲು ವರೆಗ ಮತ್ತು ಬಲ ಭಾಗದ ಮನೆಗಳು.
8	ವಾದ್ಯ 8	ಉತ್ತರ	ಗಾಂಡಿ ಸರ್ಕಾರ್‌ನಲ್ಲಿರುವ ಹುಚ್ಚರಾಯ ಶೆಟ್ಟಿ ಬಂಗಾರದ ಅಂಗಡಿ ಮೂಲೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಹೊಳೆತ್ತರೆ ರಸ್ತೆಯ ಮೂಲಕ ನೇರವಾಗಿ ಸಾಗಿ ಹಾಲಿ ಕೋಟಿ ಮೋಲೀಸ್ ಸ್ವೇಷನ್ (ಹಳೆ ಮಡ್ ಪ್ರೈಕ್ರಿ ಕಟ್ಟಡದ ಮೂಲೆಗೆ ನಿಂತು. ಎಡಕ್ಕೆ ತಿರುಗಿ ಹೊಳೆತ್ತರೆಯ ರಸ್ತೆಯ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಎಸ್.ಜಿ.ಎಂ.ಕಾಲೇಜು ಮುಂಭಾಗದ ಗುಡ್ಡಕ್ಕೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಅನೆಬಾಗಿಲುನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬುರುಜಿನ ಹಟ್ಟಿ ಸರ್ಕಾರ್‌ಗೆ ನಿಂತು ಬಲಭಾಗಕ್ಕೆ ತಿರುಗಿ ಹಿಟ್ಟನ ಗಿರಳೆ ಮುಖೀನ ಸಾಗಿ ಸಿಹಿ ನೀರು ಹೊಂದದ ಬಾಗಿಲನಿಂದ ಹೊಂದ ಸುತ್ತಿಕೊಂಡು ಗುಡ್ಡದ ಪ್ರದೇಶಕ್ಕೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ಮೂರ್ವ	ಅನೆಬಾಗಿಲು ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಗಾಂಡಿಸರ್ಕಾರ್‌ನಲ್ಲಿರುವ ಷರಾಫ್ ಹುಚ್ಚರಾಯಶೆಟ್ಟಿ ಇವರ ಬಂಗಾರದ ಅಂಗಡಿ ಕಟ್ಟಡಕ್ಕೆ ಹೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಎಸ್.ಜಿ.ಎಂ.ಕಾಲೇಜು ನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ರಸ್ತೆ ದಾಟಕೊಂಡು ಗುಡ್ಡದ ಪ್ರದೇಶದ ವರೆಗೆ.

ಕ್ರ. ಸಂ.	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
9	ವಾರ್ಡ್ 9	ಉತ್ತರ	ಪಶ್ಚಿಮದಲ್ಲಿ ಹೇಳಿರುವ ಜೀತನ ಶಾಲೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಕೇತೇಶ್ವರ ಶಾಲೆಯ ಮುಂಭಾಗದಲ್ಲಿ ಬರುವ ಜಟಿಪ್ಪನವರ ರವರ ಮನೆಯ ಮೂಲಕ ರಸ್ತೆ ದಾಟಿ ಕೊಂಡು ಹೊಳೆತ್ತೇರೆ ಗೇಟ್‌ ಬಳಿವರೆಗೆ.
		ದಕ್ಷಿಣ	ಹೊಳೆತ್ತೇರೆ ರಸ್ತೆಯ ಜ್ಞಾನಭಾರತಿ ಶಾಲೆಯಿಂದ ಎಸ್.ಜಿ.ಎಂ. ಕಾಲೇಜು ಮೂಲಕ ಶ್ರೀಕೃಷ್ಣ ಮತ್ತಕ್ಕೆ ಅಂತ್ಯೇ
		ಮೂರ್ವ	ಡಾ: ಜಟಿಪ್ಪನವರ ಮನೆಯಿಂದ ಕನಕ ಸರ್ಕಲ್‌ ವರೆಗೆ, ಕನಕ ಸರ್ಕಲ್‌ನಿಂದ ಜ್ಞಾನ ಭಾರತಿ ಶಾಲೆಯವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಶ್ರೀ ಕೃಷ್ಣ ಮತದಿಂದ ಭೀಮಸಮುದ್ರ ರಸ್ತೆ ದಾಟಕೊಂಡು ಅಂಗವಿಕಲರ ಶಾಲೆಗೆ ಮತ್ತು ಚೆಳ್ಗಳುದ್ದದ ಏರಿಯಾ ಮನೆಗಳನ್ನೋಳಗೊಂಡು ತಿಪ್ಪಾರೆಡ್ಡಿ ನಗರ ಒಳಗೊಂಡು ನವೀನ್ ಪ್ರೌಢಶಾಲೆ (ಜಟಿಪ್ಪನ ಮನೆ ಹತ್ತಿರ) ಶಾಲೆಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
10	ವಾರ್ಡ್ 10	ಉತ್ತರ	ಅಗಸನಕಲ್ಲು ಈದ್ದಾಗಿ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಆಯೂಬ್ ರವರ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಈಶ್ವರ ಕಲ್ಲಿನವರೆಗೆ
		ದಕ್ಷಿಣ	ಟಿ.ಎಂ.ಕೆ. ಕಾಂಪೋಂಡ್ ಮೂಲೆಯಲ್ಲಿರುವ ದ್ಯಾಮಪ್ಪನ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಮಸೀದಿ ಪಕ್ಕದಲ್ಲಿರುವ (ಕರಂಡಿ) ಗಲ್ಲಿಯಿಂದ ನೇರವಾಗಿ ಗುಡ್ಡದ ಕಡೆಗೆ ಸಾಗಿ ಮೌಜನ್ ಖಾದರ್ ಸಾಬ್ ರವರ ಮನೆಯವರೆಗೆ.
		ಮೂರ್ವ	ಹೊಳೆತ್ತೇರೆ ರಸ್ತೆ ಟೋಲ್‌ಗೇಟ್ ಸೇತುವೆ ಮೂಲಕ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಹರಿದು ಹೋಗುವ ಹಳ್ಳಿದ ಎಡಭಾಗದ ಮನೆಗಳು ಮತ್ತು ತಿ ಅಂಡ್ ಟಿ ಕ್ರಾಟ್‌ ಮನೆಗಳ ಕೊಂಪೋಂಡ್ ಗೋಡೆ ಮುಖೇನ ಎಡಕ್ಕೆ ತಿರುಗಿ ಅಗಸನಕಲ್ಲು ಈದ್ದಾಗಿ ಹೊಸ ನೀರಿನ ಟ್ಯಾಂಕ್ ಹಿಂದೆ ಅಯೂಬ್ ರವರ ಮನೆ ಮತ್ತು ಈಶ್ವರ ಕಲ್ಲಿನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಹಾದು ಹೋಗುವ ಗಾರೆ ಹಳ್ಳಿ ರಸ್ತೆಯ ಎಡಭಾಗದ ಮನೆಗಳು
		ಪಶ್ಚಿಮ	ಗುಡ್ಡದ ಮೇಲಿರುವ ಮೌಜನ್ ಖಾದರ್ ಸಾಬ್ (ಶಾಲೆ) ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಬರುವ ಎಲ್ಲಾ ಗುಡ್ಡಕ್ಕೆ ಹೊಂದಿ ಕೊಂಡಿರುವ ಮನೆಗಳು
11	ವಾರ್ಡ್ 11	ಉತ್ತರ	ಫಾತಿಮ್‌ ಮಸೀದಿ ಮುಖೀರಸ್ತೆ ಪಶ್ಚಿಮಕ್ಕೆ ಇರುವ ಗುಡ್ಡದ ಮೂಲೆಯಲ್ಲಿರುವ ವಜೀರ್ ಸಾಬ್ ಇವರ ಮನೆ ಹಿಂದೆ ಇರುವ ಬ್ರೈಟ್‌ ಶಾಲೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಪ್ರಾರಂಭವಾಗಿ ನೇರವಾಗಿ ಟಿಪ್ಪೋ ಸರ್ಕಲ್‌ ವರೆಗೆ ಸಾಗಿ ಜ್ಯೇಸ್‌ನುಲಾಬಿನ್‌ ಇವರ ಕಾಂಪೆಕ್ಸ್ ನಿಂದ ಬಲಕ್ಕೆ ತಿರುಗಿ ಅಗಸನಕಲ್ಲು ಮುಖ್ಯ ರಸ್ತೆಯಲ್ಲಿರುವ ಎಡಭಾಗದ ಕ್ರಾಸ್‌ನಲ್ಲಿರುವ ಕಂಟಾಕ್‌ರ್‌ ಜಭೀವುಲ್ಲಾ ಇವರ ಕಟ್ಟಡದಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಮೂಲೆಯಲ್ಲಿರುವ ಹಬೀಬ್ ವುಲ್ಲಾ ಇವರ ಮನೆಯಿಂದ ಬಲಕ್ಕೆ ತಿರುಗಿ ಮನೆ: ಎಡಕ್ಕೆ ತಿರುಗಿ ಹಳ್ಳಿದ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಹೆಚ್.ಎಲ್.ಕೆ.ರಸ್ತೆ ಟೋಲ್‌ಗೇಟ್ ಹತ್ತಿರವಿರುವ ಸೇತುವೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಉತ್ತರದಕಡೆ ಸೇರುವ ರಸ್ತೆಯ ನಂತರ ಚೆಳ್ಗಳುದ್ದದ ಕೋಟಿನೂರು ಆಟೋ ನಿಲಾಣದಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಎತ್ತಿನ ಗಾಡಿ ಇನಾಯ್‌ ಇವರ ಮನೆಯ ಮುಖೇನ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಡಾ: ವಿಲೀಲ್ ಖಾನ್ ಲೇಟೆಟ್ ಮೂಲಕ ಈಶ್ವರ ದೇವಸ್ಥಾನದ ವರೆಗೆ (ಈಶ್ವರನಕಲ್ಲು)
		ಮೂರ್ವ	ಹೊಳೆತ್ತೇರೆ ರಸ್ತೆ ಟೋಲ್‌ಗೇಟ್ ನಿಂದ ಹಳ್ಳಿದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಗಣೇಶನ ದೇವಸ್ಥಾನ ಜ್ಞಾನವಿಕಾಸ ಶಾಲೆಯ ಮುಖೇನ ಅಗಸನಕಲ್ಲು ಮುಂಭಾಗದಲ್ಲಿರುವ ಗಿಡಮರವಿರುವ ಬಯಲು ಪ್ರದೇಶದಿಂದ ಸಾಗಿ ಎ.ಕೆ.ಕಾಲೋನಿ ಕಾಲಿಟಿ ಸಾಮಿಲ್‌ ವರೆಗೆ (ಹಳ್ಳಿ ಗಡಿಯಾಗಿರುತ್ತದೆ)
		ಪಶ್ಚಿಮ	ಹೊಳೆತ್ತೇರೆ ರಸ್ತೆ ಟೋಲ್‌ ಗೇಟ್ ಉತ್ತರಕ್ಕೆ ಹೋಗುವ ರಸ್ತೆ ಕ್ರಾಫ್ತೆಶ್ವರ ಸಮುದಾಯ ಭವನಮುಖೇನ ಕೋಟಿನೂರು ಆಟೋ ನಿಲಾಣ ನಂತರ ಈಶ್ವರನ ಕಲ್ಲು ದೇವಸ್ಥಾನದಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬ್ರೈಟ್‌ ಶಾಲೆ ವಜೀರ್ ಸಾಬ್ ಮನೆಯ ವರೆಗೆ.
12	ವಾರ್ಡ್ 12	ಉತ್ತರ	ಎಂ.ಕೆ.ಪ್ರ್ಯಾಲೇಸ್ ಮುಖ್ಯ ರಸ್ತೆ ಪಶ್ಚಿಮದಲ್ಲಿರುವ ಗುಡ್ಡ. ಅನ್ನರ್ ಬಾಷ ಇವರ ಶಾಲೆಯ ಕಟ್ಟಡದಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಎಂ.ಕೆ.ಪ್ರ್ಯಾಲೇಸ್ ಮುಂಭಾಗದ ಸರ್ಕಾರಿ ಶಾಲೆಯ ನೀರಿನ ಟ್ಯಾಂಕ್ ಮುಖೇನ ಡಾ: ವಿಲೀಲ್ ಖಾನ್ ಮನೆಯ ವರೆಗೆ.

ಕ್ರ. ಸಂ.	ವಾಡ್‌ ಸಂಪೂರ್ಣ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಷುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ದಕ್ಷಿಣ	ಫಾತೀಮ್ ಮಸೀದಿ ಮುಖ್ಯರಸ್ತೇ ಪಶ್ಚಿಮದ ಗಡಿಯಲ್ಲಿರುವ ಗುಡ್ಡದ ಮೂಲೆ ಹಮಾಲಿ ಮಹಬೂಬ್ ಖಾನ್ ಮನೆಯಿಂದ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎಡಭಾಗದ ಎಲ್ಲಾ ಮನೆಗಳನ್ನೂ ಕೊಂಡು ಸಾಗಿ ಟಿಪ್ಪು ಸರ್ಕಾರ್ ಕೊನೆಗೊಂಡು ಅಗಸನಕಲ್ಲು ಮುಖ್ಯರಸ್ತೇಗೆ ಬಲಕ್ಕೆ ತಿರುಗಿ ಮನ: ಎಡಕ್ಕೆ ತಿರುಗಿ ಕಂಟಕರ್ ನೂರುಲ್ಲಾ ಇವರ ಮನೆಯಿಂದ ಪೂರ್ವಕ್ಕೆ ಸಾಗಿ ದೊಡ್ಡ ಹಳ್ಳಿದವರೆಗೆ
		ಮೂರ್ವ	ಡಾ:ಎಲೀಲ್ ಮನೆ ಮುಂಭಾಗದ ಕಾಂಪೌಂಡ್‌ನಿಂದ ಕ್ಷಾಲಿಟಿ ಸಾಮೀಲ್ ಮುಖೀನ ಸಾಗಿ ಹಳ್ಳಿದ ವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಅನ್ನರ್ ಬಾಷ ಇವರ ಶಾಲೆಯಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಹಮಾಲಿ ಮಹಬೂಬ್ ಖಾನ್ ಇವರ ಮನೆಯ ವರೆಗೆ. ಇರುವ ಪಶ್ಚಿಮ ಭಾಗದ ಗುಡ್ಡದ ಪ್ರದೇಶ.
13	ವಾಡ್‌ 13	ಉತ್ತರ	ಅಗಸನಕಲ್ಲು ಎ.ಕೆ.ಕಾಲೋನಿ ಮೂರ್ವ ದಿಕ್ಷಿನಲ್ಲಿರುವ ಕ್ಷಾಲಿಟಿ ಸಾಮೀಲ್ ನಿಂದ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ನೇರವಾಗಿ ಮಿಲ್ಲತ್ ಹೈಸ್‌ಮೂಲ್ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಮಾಗನೂರು ಬಸಪ್ಪನವರ ಮಿಲ್ ಕಾಂಪೌಂಡ್ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇ ಟೋಲ್ ಗೇಟ್ ಬಳಿ ಇರುವ ಸೇತುವೆ ಪಕ್ಕದಲ್ಲಿರುವ ಪರಮೇಶ್ವರಪ್ಪನವರಿಗೆ ಸೇರಿದ ಉತ್ಸವಾಂಭ ನಿಲಯದಿಂದ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ನೇಹರು ನಗರ 1ನೇ ಕ್ರಾಸ್ ಗೌರಮ್ಮ ಮನೆವರೆಗೆ.
		ಮೂರ್ವ	ನೇಹರು ನಗರ 1ನೇ ಕ್ರಾಸ್ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಮಿಲ್ಲತ್ ಹೈಸ್‌ಮೂಲ್ ಒಳಗೊಂಡು ಮಾಗನೂರು ಬಸಪ್ಪನವರ ಮಿಲ್ ವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇ ಟೋಲ್ ಗೇಟ್ ಬಳಿ ಇರುವ ಸೇತುವೆಯಿಂದ ಅಗಸನಕಲ್ಲು ಎ.ಕೆ.ಕಾಲೋನಿ ಕೊನೆಯಲ್ಲಿ ಬರುವ ಕ್ಷಾಲಿಟಿ ಸಾಮೀಲ್ ವರೆಗೆ (ಹಳ್ಳಿ ಗಡಿಯಾಗಿರುತ್ತದೆ)
14	ವಾಡ್‌ 14	ಉತ್ತರ	ಮಿಲ್ಲತ್ ಹೈಸ್‌ಮೂಲ್ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಮಾಗನೂರು ಬಸಪ್ಪನವರ ಮಿಲ್ ಕಾಂಪೌಂಡ್ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬರಗೇರಿ ಬೀದಿ 2ನೇ ಕ್ರಾಸ್ ಉತ್ತರಕ್ಕೆ ಕೊನೆಗೊಳ್ಳುವ ಬರಗೇರಿ ಕೆರೆ ಅಂಗಳಿದವರೆಗೆ.
		ದಕ್ಷಿಣ	ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇಯಲ್ಲಿರುವ ನೇಹರು ನಗರದ 1ನೇ ಕ್ರಾಸ್ ಪಕ್ಕದಲ್ಲಿರುವ ಮಕ್ಕಾ ಹೊಟ್‌ಲ್ ನಿಂದ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬರಗೇರಮ್ಮ ಬೀದಿ 1ನೇ ಕ್ರಾಸ್ ಮೂಲೆಯಲ್ಲಿರುವ ಬಸವಂತಪ್ಪನವರ ರಾಫ್‌ವೇಂದ್ರ ಇಂಜಿನಿಯರಿಂಗ್ ವರ್ಕ್‌ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ನೈಯಾಜ್ ಅಹ್ಡ್ ಮನೆ ಕೊನೆಗೊಂಡು ಬರಗೇರಿ ಕೆರೆ ಅಂಗಳಿದವರೆಗೆ.
		ಮೂರ್ವ	ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇಯಲ್ಲಿರುವ ಬರಗೇರಮ್ಮ ಬೀದಿ 1ನೇ ಕ್ರಾಸ್ ನ ಮೂಲೆಯಲ್ಲಿರುವ ಬಸವಂತಪ್ಪನವರ ರಾಫ್‌ವೇಂದ್ರ ಇಂಜಿನಿಯರಿಂಗ್ ವರ್ಕ್‌ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ನೈಯಾಜ್ ಅಹ್ಡ್ ಮನೆ ಕೊನೆಗೊಂಡು ಬರಗೇರಿ ಕೆರೆ ಅಂಗಳಿದವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇಯಲ್ಲಿರುವ ನೇಹರುನಗರ 1ನೇ ಕ್ರಾಸ್ ಮಕ್ಕಾ ಹೊಟ್‌ಲ್ ಬಲಭಾಗಕ್ಕಿರುವ ಮೂಲೆ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬಲಭಾಗದ ಎಲ್ಲಾ ಮನೆಗಳನ್ನು ಒಳಗೊಂಡು ಮಿಲ್ಲತ್ ಹೈಸ್‌ಮೂಲ್ ಹಿಂಭಾಗಕ್ಕಿರುವ ಮಾಗನೂರು ಬಸಪ್ಪನವರ ಮಿಲ್ ಕೊಂಪೌಂಡ್ ವರೆಗೆ
15	ವಾಡ್‌ 15	ಉತ್ತರ	ಜಿತ್ರುದುಗ್ ನಗರದ ಮಹಾತ್ಮಾಗಂಧಿ ಸರ್ಕಾರ್ ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬಿ.ಡಿ.ರಸ್ತೇ ಮೂಲಕ ಆಜಾದ್ ಮಿಲ್ ಮೂಲೆಯವರೆಗೆ
		ದಕ್ಷಿಣ	ಮಹಾತ್ಮಾಗಂಧಿ ಸರ್ಕಾರ್‌ನಿಂದ ಪೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಹೊಳೆಲ್‌ರೆ ರಸ್ತೇ ಬರಗೇರಿ ಬೀದಿ 1ನೇ ಕ್ರಾಸ್ ಮೂಲೆಯಲ್ಲಿರುವ ಹೀರೋ ಹೊಂಡ ಸ್ವೀಎಸ್ ಸೆಂಟರ್ ಮೂಲಕ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಶಿಬ್ಬೋ ರವರ ಮನೆಯ ತನಕ ನಂತರ ಜಯಂತಿ ಮಿಲ್ ನ ಬಯಲು ಪ್ರದೇಶದ ವರೆಗೆ.
		ಮೂರ್ವ	ಆಜಾದ್ ಮಿಲ್ ಮೂಲೆಯಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಅಗಸನಕಲ್ಲು ರಸ್ತೇಯ ಮೂಲಕ ಜಯಂತ್ ಮಿಲ್ ಮೂಲೆಯವರೆಗೆ
		ಪಶ್ಚಿಮ	

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಪೂರ್ಣ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
16	ವಾದ್ಯ 16	ಉತ್ತರ	ಬಿ.ಡಿ.ರಸ್ತೆಯಿಂದ ಆಜಾದ್ ಮೀಲ್ ಪಕ್ಕದಲ್ಲಿರುವ ಲೇಜೆಟ್ ಮೂಲೆಯ ಮಹಾವೀರ ನಗರದ ನಾಮಫಲಕ (ಎ.ಪಿ.ಎಂ.ಸಿ.ಮುಖ್ಯಗಳ ಮುಂಭಾಗ) ದಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಕೆ.ಆರ್.ಮುರುಗೇಂದ್ರಪ್ಪನವರ ಮನೆಯ ಮುಖೀನ ರೈಲ್ ಸೇಷನ್ ಮುಂಭಾಗದ ರಸ್ತೆ ಮೂಲಕ ರೈಲ್ ಸೇಷನ್ ಆವರಣದ ಕಾಂಪೋಂಡ್ ಮೂಲೆ ಮಟನ್ ಅಂಗಡಿ ಸತ್ತಾರ್ ಸಾಬ್ ಮನೆವರೆಗೆ.
		ದಕ್ಷಿಣ	ಸದಾನಂದಯ್ಯ ಬಡಾವಣೆಗೆ ಮುಂಭಾಗದಲ್ಲಿ ಎಸ್.ಎಂ.ದೇವರಾಜಯ್ಯನವರ ಮನೆ ಮತ್ತು ಲೇಜೆಟ್ ನಿಂದ ಮೂವಾಭಿಮುಖವಾಗಿ ಅಗಸನಕಲ್ಲು ಮೂಲೆಯಲ್ಲಿರುವ ಹೊಸ ಟ್ಯಾಂಕ್ ವರೆಗೆ.
		ಮೂರ್ವ	ಬಿ.ಡಿ.ರಸ್ತೆಯಿಂದ ಆಜಾದ್ ಮೀಲ್ ಪಕ್ಕದಲ್ಲಿರುವ ಅಗಸನಕಲ್ಲಿಗೆ ಹೋಗುವ ರಸ್ತೆ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಅಗಸನಕಲ್ಲು ಮೂಲೆಯಲ್ಲಿರುವ ಹೊಸ ಟ್ಯಾಂಕ್ ಪಕ್ಕಕೆ ಸೇರುವ ರಸ್ತೆಯವರೆಗೆ
		ಪಶ್ಚಿಮ	ರೈಲ್ ಕಳ್ಳೇರಿ ಹಿಂಭಾಗದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎಸ್.ಎಂ.ದೇವರಾಜಯ್ಯ ನವರ ಮನೆಯ ಬಯಲು ಪ್ರದೇಶವರೆಗೆ.
17	ವಾದ್ಯ 17	ಉತ್ತರ	ದಾವಣಗೆರೆ ರಸ್ತೆ ರೈಲ್ ಕ್ರೂಸಿಂಗ್ ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬೈಪಾಸ್ ನಿಂದ ಬಂದು ಸೇರುವ ಸರ್ಕಾರ್ ಬಳಿ ಇರುವ ವಿಜಯಲಕ್ಷ್ಮಿ ಕಾಟನ್ ಮೀಲ್ ಕಾಂಪೌಂಡ್‌ವರೆಗೆ
		ದಕ್ಷಿಣ	ರೈಲ್ ಸೇಷನ್ ರಸ್ತೆಯ ಮೂಲಕ ರೈಲ್ ಸೇಷನ್ ಒಳಗೊಂಡು ರೈಲ್ ಹಳಿ ಮೂಲಕ ಹೊಸದಾಗಿ ರಚಿಸಿರುವ ಆಶ್ರಯ ಲೇಜೆಟ್ ಮೂಲೆವರೆಗೆ
		ಮೂರ್ವ	ದಾವಣಗೆರೆ ರಸ್ತೆ ರೈಲ್ ಕ್ರೂಸಿಂಗ್ ನಿಂದ ರೈಲ್ ಸೇಷನ್ ರಸ್ತೆವರೆಗೆ.
		ಪಶ್ಚಿಮ	ವಿಜಯಲಕ್ಷ್ಮಿ ಕಾಟನ್ ಮೀಲ್ ಕಾಂಪೌಂಡ್ ಮೂಲೆಯಿಂದ ಮತದ ಮುಂಭಾಗದ ಕರೆ ಹೊರತುಪಡಿಸಿ ಜಯಲಕ್ಷ್ಮಿ ಲೇಜೆಟ್ ಕ್ರೂಸ್ ರಸ್ತೆ ಮುಂಭಾಗದಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಎನ್.ಹೆಚ್.13 ರಸ್ತೆ ಆಶ್ರಯ ಲೇಜೆಟ್ ವರೆಗೆ.
18	ವಾದ್ಯ 18	ಉತ್ತರ	ದಾವಣಗೆರೆ ರಸ್ತೆ ಮತ್ತು ಎನ್.ಹೆಚ್.-4 ಬೈಪಾಸ್ ರಸ್ತೆ ಸರ್ಕಾರ್ ನಿಂದ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ದಕ್ಷಿಣದ ಕಡೆಗೆ ತಿರುಗುವ ಎ.ಪಿ.ಎಂ.ಸಿ.ಮೂಲೆಯ ಕಾಂಪ್ಲೆಕ್ಸ್
		ದಕ್ಷಿಣ	ದಾವಣಗೆರೆ ರಸ್ತೆ ಮತ್ತು ಎನ್.ಹೆಚ್.-4 ಬೈಪಾಸ್ ರಸ್ತೆ ಸೇರುವ ಸರ್ಕಾರ್ ನಿಂದ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಜಿ.ಹೆಚ್.ಆರ್.ಕಾಂಪೌಂಡ್ ಲೇಡಿಸ್ ಹಾಸ್ಪಿಲ್ ಮೂಲಕ ನಗರಸಭೆಗೆ ಸೇರಿರುವ ಟೊರಿಸ್ ಹೋಟೆಲ್ ವರೆಗೆ.
		ಮೂರ್ವ	ನಗರಸಭೆಗೆ ಸೇರಿರುವ ಟೊರಿಸ್ ಹೋಟೆಲ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಅಂದರೆ ಮೆದೇಹಳ್ಳಿ ರಸ್ತೆ ನೇರವಾಗಿ ರೈಲ್ ಕ್ರೂಸ್ ಮುಖೀನ ಎನ್.ಹೆಚ್.-4 ಬೈಪಾಸ್ ರಸ್ತೆವರೆಗೆ.
		ಪಶ್ಚಿಮ	ದಾವಣಗೆರೆ ರಸ್ತೆ ಮತ್ತು ಎನ್.ಹೆಚ್.-4 ಬೈಪಾಸ್ ರಸ್ತೆಗೆ ಬಂದು ಸೇರುವ ಸರ್ಕಾರ್
19	ವಾದ್ಯ 19	ಉತ್ತರ	ಮೆದೇಹಳ್ಳಿ ರಸ್ತೆ ಕೊನೆಯಲ್ಲಿರುವ ಫ್ಲೈಬರ್ ಪಕ್ಕದಲ್ಲಿರುವ ವೆಂಕಟೇಶ್ವರ ಇಂಡಿನಿಯರಿಂಗ್ ಪಕ್ಕ ನಿಂದ ಎನ್.ಹೆಚ್.-4 ಪಕ್ಕದ ಸರ್ವೀಸ್ ರೋಡ್ ಮುಖೀನ ಮೂರಾಭಿಮುಖವಾಗಿ ನ್ಯಾಷನಲ್ ಸರ್ವೀಸ್ ಸೇಷನ್ ಮೂಲೆಯಲ್ಲಿರುವ ಹೋಟೆಲ್ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಮೆದೇಹಳ್ಳಿ ರಸ್ತೆಯಲ್ಲಿ ಮೂಲೆಯಲ್ಲಿರುವ ಮಹಮದ್ ಗೌಸ್ ಇವರ ಮಳಿಗೆಗಳಿಂದ ನೇರವಾಗಿ ವೆಂಕಟೇಶ್ವರ ಚಿತ್ರಮಂದಿರದ ಮೂಲಕ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬಿ.ಎ.ಶಾಸಿಂಸಾಬ್ ರವರ ತೋಟದ ಮೂಲೆಯವರೆಗೆ.ನಂತರ ಹಳ್ಳಿದ ಮೂರ್ವ ದಿಕ್ಕಿನಲ್ಲಿರುವ ಜಿಲ್ಲಾ ವಿಜಾನೆ ನೌಕರಾದ ರಫೀಕ್ ಪುಲ್ಲು ಮನೆಯಿಂದ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮೂಲಕ ಬಂದು ಎಡಕ್ಕೆ ತಿರುಗಿ ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆಯಲ್ಲಿ ಇರುವ ದೇವಸ್ಥಾನದ ಸ್ವಾಗತ ದ್ವಾರದ ಪಕ್ಕದ ಸಿದ್ದಪ್ಪನ ಮನೆಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ಮೂರ್ವ	ಗೋಪಾಲಪುರ ರಸ್ತೆ ಕೊನೆಯಲ್ಲಿರುವ ಹೋಟೆಲ್ ನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ಸ್ವಾಗತ ಬಾಗಿಲು ಪಕ್ಕ ಇರುವ ಸಿದ್ದಪ್ಪನವರ ಮನೆಯಿಂದ ಬಲಕ್ಕೆ ತಿರುಗಿ ನೇರವಾಗಿ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ತಿಪ್ಪಿನ ಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದಿಂದ ಮುಂದೆ ಸಾಗಿ ಜಿಲ್ಲಾ ವಿಜಾನೆ ರಫೀವುಲ್ಲಾ ರವರ ಮನೆಯವರೆಗೆ ಸಾಗಿ ನಂತರ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ದೊಡ್ಡ ಚರಂಡಿಯ ಗಡಿಯ ಮೂಲಕ ಕ್ರೇಸೆಂಟ್ ಶಾಲೆಯ ಮೂಲೆವರೆಗೆ.

ಕ್ರ. ಸಂ.	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ಪಶ್ಚಿಮ	ಮೆದೇಹಲ್ಲಿ ರಸ್ತೆ ವೆಂಕಟೇಶ್ವರ ಟಾಕೇಸ್ ಮೂಲೆಯಲ್ಲಿರುವ ಮಹಮ್ಮದ್ ಗೌಸ್ ರವರ ಕಾಂಪ್ಲೆಕ್ಸ್ ಕಟ್ಟಡದಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಆದರ್ಥ ಕಲ್ಯಾಣ ಮಂಟಪ ರೈಲ್ವೇ ಗೇಟ್ ಮುಖಿಂತರ ಸಾಗಿ ಎನ್.ಹೆಚ್. -4 ಸರೀರ್ ರಸ್ತೆಯ ಮೂಲೆಯಲ್ಲಿರುವ ಶ್ರೀ ವೆಂಕಟೇಶ್ವರ ಇಂಜಿನಿಯರಿಂಗ್ ವರ್ಕೋಶಾಪ್‌ಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
20	ವಾರ್ಡ್ 20	ಉತ್ತರ	ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆಯಲ್ಲಿರುವ ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ಶ್ರೀಮರ ಸುಂದರಿ ಮುಖ್ಯದ್ವಾರ, ಕನ್ನಡ ಸರ್ಕಾರಿ ಶಾಲೆಯ ಪಕ್ಕದಲ್ಲಿರುವ ರಫೀಕ್ ಇವರ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಕ್ಕೆ ಮುಖವಾಗಿ ಸಾಗಿ ತಿಪ್ಪಿನ ಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ರಸ್ತೆಯ ಮೂಲಕ ದೊಡ್ಡ ಹಳ್ಳದ ಚರಂಡಿಯವರೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ. (ಜಿಲ್ಲಾ ವಿಜಾನ ನೌಕರ ರಫೀವುಲ್ಲಾ ಇವರ ಮನೆ ಮುಂಭಾಗದಲ್ಲಿರುವ ಆಟೋ ಷರೀರ್ ವುಲ್ಲಾ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಗೋಪಾಲಪುರ ರಸ್ತೆ ಪ್ರಾರಂಭದಲ್ಲಿರುವ ರೇಣುಕಾ ದೇವಸ್ಥಾನದಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ರಿಜಿನಲ್ ಶಾಲೆ ಮೂಲಕ ಮೂಲೆಯಲ್ಲಿರುವ ಕ್ರಸೆಂಟ್ ಶಾಲೆವರೆಗೆ
		ಮೂರ್ವ	ಗೋಪಾಲಪುರ ರಸ್ತೆಮೂಲೆಯಲ್ಲಿರುವ ರೇಣುಕಾಂಭ ದೇವಸ್ಥಾನದಿಂದ ಉತ್ತರಕ್ಕೆ ನೇರವಾಗಿ ಸಾಗಿ ತಿಪ್ಪಿನ ಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮುಖ್ಯ ದ್ವಾರದ ವರೆಗೆ. (ಕನ್ನಡ ಸರ್ಕಾರಿ ಶಾಲೆ ಪಕ್ಕದಲ್ಲಿರುವ ರಫೀಕ್ ಇವರ ಮನೆಯ ವರೆಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.)
		ಪಶ್ಚಿಮ	ಕ್ರಸೆಂಟ್ ಸ್ಕೂಲ್ ಮೂಲೆಯಲ್ಲಿರುವ ಸೇತುವೆ ಯಿಂದ ದೊಡ್ಡ ಚರಂಡಿಯನ್ನು ಗಡಿಯಾಗಿಸಿ ಕೊಂಡು ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ದೊಡ್ಡ ಚರಂಡಿ ಪಕ್ಕದಲ್ಲಿ ಬರುವ ಆಟೋ ಚಾಲಕ ಷರೀರ್ ವುಲ್ಲಾ ರವರ ಮನೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
21	ವಾರ್ಡ್ 21	ಉತ್ತರ	ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆ ಕೊನೆಗೊಳ್ಳುವ ಮೂಲೆಯಿಂದ ಎನ್.ಹೆಚ್.-4 ಪಕ್ಕದ ಸರೀರ್ ರಸ್ತೆ ಮುಖಿಂತರ ಮೂರ್ವಾಭಿಮುಖವಾಗಿ ಬಲ ಮೂಲೆಯಲ್ಲಿರುವ ತಿರುಮಲ ರಸ್ತೋರೆಂಟ್ ವರೆಗೆ
		ದಕ್ಷಿಣ	ಎನ್.ಹೆಚ್.-13 ಮೂಲೀಸ್ ವಸತಿ ಗೃಹಗಳು ಮತ್ತು ಬಲಭಾಗದ ಮನೆಗಳು.
		ಮೂರ್ವ	ಜೆ.ಸಿ.ಆರ್.ಮುಖ್ಯರಸ್ತೆ ಪಕ್ಕದಲ್ಲಿರುವ ಮಾಸ್ಪ್ರೋ ಸಿದ್ದಪ್ರಸ್ವರ ಬಿಲ್ಲಿಂಗ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎನ್.ಹೆಚ್.-4 ಸರೀರ್ ರಸ್ತೆಯ ಪಕ್ಕದಲ್ಲಿ ತಿರುಮಲ ರಸ್ತೋರೆಂಟ್ ವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆ ದರ್ಜಿಕಾಲೋನಿ 1ನೇ ಕ್ರಾಸ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಗೋಪಾಲಪುರ ರಸ್ತೆ ಕೊನೆಗೊಂಡು ಎನ್.ಹೆಚ್.-4 ಸರೀರ್ ರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ವಿದ್ಯುತ್ ಟ್ರಾನ್ಸ್‌ಫಾರ್ಮರ್ ಮೂಲೆವರೆಗೆ.
22	ವಾರ್ಡ್ 22	ಉತ್ತರ	ಕೆ.ಇ.ಬಿ.ಗೆಸ್ಟ್ ಹೌಸ್ ಮೂಲೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎನ್.ಹೆಚ್.4 ಮೂಲಕ ಬಂದು ಸರೀರ್ ರಸ್ತೆಯಲ್ಲಿನ ಹಳೆ ಪ್ರಾರಂಭದಲ್ಲಿನ ಹೊಟೆಲ್ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಅರಣ್ಯ ಕಚೇರಿಯಿಂದ ಮೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಕೆ.ಇ.ಬಿ.ಕಾಟ್ಟಪ್ರಸ್ ಮೂಲೆಯವರೆಗೆ.
		ಮೂರ್ವ	ಶುರುವನೂರು ರಸ್ತೆ (ಆರ್.ಟಿ.ಇ.ಕಚೇರಿ ರಸ್ತೆ) ಕೆ.ಇ.ಬಿ.ಕಾಟ್ಟಪ್ರಸ್ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎನ್.ಹೆಚ್.4 ವರೆಗೆ
		ಪಶ್ಚಿಮ	ಅರಣ್ಯ ಇಲಾಖೆಯ ಕಢೇರಿಯಿಂದ (ಹೊಸ ನೀರಿನ ಟ್ಯಾಂಕ್) ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಜೆ.ಸಿ.ಆರ್.ಸರ್ಕಾರ್ ಮೂಲಕ ಪ್ಲೈಟ್‌ವರ್ ಹತ್ತಿರ ಇರುವ ಹಳೆ ಪ್ರಾರಂಭದಲ್ಲಿನ ಹೊಟೆಲ್ ಮೂಲೆಯವರೆಗೆ.
23	ವಾರ್ಡ್ 23	ಉತ್ತರ	ಮೆದಹಲ್ಲಿ ರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ಸೋಮನಾಥ್ ಇವರ ಮಳಿಗೆಳಿಂದ ಮೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ವೆಂಕಟೇಶ್ವರ ಟಾಕೇಸ್ ಮೂಲಕ ಕ್ರಸೆಂಟ್ ಶಾಲೆ ಮುಂಭಾಗಕ್ಕಿರುವ ವ್ಯಾ ಪ್ಲೈನಿಂಗ್ ಷಾಪ್ ವರೆಗೆ ಮತ್ತು ದೊಡ್ಡ ಚರಂಡಿ ಪಕ್ಕದಲ್ಲಿರುವ ಚರ್ಮದ ಇಕ್ಕಾಲ್ ಸಾಬ್ ಮನೆಯಿಂದ ಮೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಅಂಜಮಾನ್ ರಸ್ತೆ ಪ್ರಾರಂಭಕ್ಕಿರುವ ಗಿರಿಯಪ್ಪನ ಮನೆ.
		ದಕ್ಷಿಣ	ಗಾಂಧಿ ಸರ್ಕಾರ್ ಬಲಭಾಗದಲ್ಲಿರುವ ಪ್ರಭಾತ್ ಮೋಟೋ ಸ್ಟೂಡಿಯೋನಿಂದ ಮೂರ್ವಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಶಂಕರ್ ಜಿತ್ತಮಂದಿರದ ರಸ್ತೆಯ ಮೂಲಕ ಮೈಸೂರ್ ಬಾಂಕ್ ಸರ್ಕಾರ್ ಕೇರಾನ್ ಬಟ್ಟೆ ಅಂಗಡಿಯ ಕಟ್ಟಡಕ್ಕೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.

ಕ್ರ. ಸಂ.	ವಾದ್ಯೋ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ಮೊವ್ರೆ	ಮೈಸೂರು ಬ್ಯಾಂಕ್ ಸರ್ಕಾರ್ ಬಳಿ ಇರುವ ಕೇರಾನ್ ಬಟ್ಟೆ ಅಂಗಡಿ ಮೂಲೆಯಿಂದ ಬಸವೇಶ್ವರ ಟಾಕೀಸ್ ರಸ್ತೆಯ ಮೂಲಕ ಹಾದು ಹೋಗಿ ಬಸವೇಶ್ವರ ಟಾಕೀಸ್ ರಸ್ತೆಯಲ್ಲಿರುವ ಕೋಟಿನೂರು ಆಟೋಮೋಬೈಲ್ಸ್ ಮೂಲಕ ಸಾಗಿ ಅಂಜುಮಾನ್ ರಸ್ತೆ ಪ್ರಾರಂಭದಲ್ಲಿ ಬರುವ ಗಿರಿಯಪ್ಪನ ಮನೆಯ ವರೆಗೆ
		ಪಶ್ಚಿಮ	ಸಂತೇಪೇಚೆ ಸರ್ಕಾರ್ ನಲ್ಲಿರುವ ಭಾರತ್ ಸ್ಪೃಹೀಯೊ ಬಿಲ್ಲಿಂಗ್ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಇಲಾಹಿ ಬ್ಯಾಂಕ್ ಕಟ್ಟಡದ ಮೂಲಕ ಮೆದಹಳ್ಳಿ ರಸ್ತೆಯ ಮೂಲಕ ಪೆರಕಟೇಶ್ವರ ಟಾಕೀಸ್ ರಸ್ತೆಯಲ್ಲಿ ಬರುವ ಸೋಮನಾಥ ಮಳಗೆಯ ವರೆಗೆ.
24	ವಾದ್ಯೋ 24	ಉತ್ತರ	ಗೋಪಾಲಪುರ ರಸ್ತೆ ದರ್ಜೆ ಕಾಲೋನಿ 1ನೇ ಕ್ರಾಸ್ ದಕ್ಕಣ ಭಾಗದ ಮನೆಗಳ ಮೂಲಕ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಎಡಕ್ಕೆ ತಿರುಗಿ ಮತ್ತೆ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಜಿ.ಸಿ.ಆರ್.1ನೇ ಕ್ರಾಸ್ ದಕ್ಕಣ ಭಾಗದಲ್ಲಿರುವ ಸಣ್ಣಗಲ್ಲಿ ಮೂಲಕ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಹಿಮ್ಮತ್ ನಗರ ಅಂಗನವಾಡಿ ಕೇಂದ್ರದವರೆಗೆ.
		ದಕ್ಕಣ	ಹಿಟ್ಟಿನ ಗಿರಣೆ ಮುಂಭಾಗದ ಕುಲುಮೆ ಜಬ್ಬರ್ ಸಾಬ್ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ಜ.ಟಿ.ಹನುಂತರಾವ್ ಮನೆಯವರೆಗೆ.
		ಮೊವ್ರೆ	ಜೆ.ಜೆ.ಹಟ್ಟಿ ಬ್ಯಾಂಕ್ ಹತ್ತಿರ ಇರುವ ಹಿಟ್ಟಿನ ಗಿರಣೆ ಮುಂಭಾಗವಿರುವ ಕುಲುಮೆ ಜಬ್ಬರ್ ಸಾಬ್ ಮೂಲೆ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ವಿಯೂಂ ಸಾಬ್ ಕಿರಾಣಿ ಅಂಗಡಿ ಮೂಲಕ ಸಾಗಿ ಬಲಕ್ಕೆ ಇಬ್ರಾಹಿಂ ಸಾಬ್ ಮನೆ ಪಕ್ಕದ 3ನೇ ಗಲ್ಲಿ ಮೂಲಕ ಸಾಗಿ ಹಮ್ಮಿದ್ದು ಸಾಬ್ ಮನೆಯಿಂದ ಎಡಕ್ಕೆ ತಿರುಗಿ ಸೂರತಿ ಹಾಫೀಜ್ ಸಾಬ್ ಮನೆ ಮುಂಭಾಗದಿಂದ ಸಾರ್ವಜನಿಕ ಶೌಚಾಲಯ ಮುಂಭಾಗದಿಂದ ಅಂಗನವಾಡಿ ಕೇಂದ್ರದ ವರೆಗೆ (ಎಡ ಭಾಗದ ಮನೆಗಳು )
		ಪಶ್ಚಿಮ	ಗೋಪಾಲಪುರ ಮುಖ್ಯರಸ್ತೆಯಲ್ಲಿರುವ ಜ.ಟಿ.ಹನುಂತರಾವ್ ಮಳಿಗೆ ಕಿರಾಣಿ ಅಂಗಡಿ ಮೂಲೆಯಿಂದ ನೇರವಾಗಿ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ದರ್ಜೆ ಕಾಲೋನಿ 1ನೇ ಕ್ರಾಸ್ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಮೂಲೆಯವರೆಗೂ (ಪ್ಯಾರಿಮಾ ಮನೆ ಮುಂಭಾಗ)
25	ವಾದ್ಯೋ 25	ಉತ್ತರ	ಹಿಮ್ಮತ್ ನಗರದಲ್ಲಿರುವ ಅಂಜನೇಯ ಸ್ವಾಮಿ ಗುಡಿ ಹತ್ತಿವಿರುವ ಇಬ್ರಾಹಿಂ ಸಾಬ್ ಮನೆಯಿಂದ ಮೂರ್ವದ ಕಡೆಗೆ ಹೋಗುವ ಹಮ್ಮಿದ್ದು ಸಾಬ್ ಮನೆವರೆಗೆ 3ಗಲ್ಲಿ ಮತ್ತು ಹಿಟ್ಟಿನ ಗಿರಣೆ ರಶೀದ್ ಸಾಬ್ ಮೂಲೆ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಟಿಂಬರ್ ಅನ್ನರ್ ಸಾಬ್ ಇವರ ಡಿಮೋವರೆಗೆ.
		ದಕ್ಕಣ	ಅಹ್ಮದ್ ರಚಾ ಸರ್ಕಾರ್ ಮುಂಭಾಗದ ಕಿರಾಣಿ ಅಂಗಡಿ ಯಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಘಾರೆಸ್ ಆಫೀಸ್ ರಸ್ತೆ, ಜೆ.ಜೆ.ಹಟ್ಟಿ ಕ್ರಾಸ್ ವರೆಗೆ.
		ಮೊವ್ರೆ	ಘಾರೆಸ್ ಕಫೇರಿಗೆ ಹೋಗುವ ರಸ್ತೆಯ ಎಡಭಾಗದಲ್ಲಿ ಜೆ.ಜೆ.ಹಟ್ಟಿ ಕ್ರಾಸ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ದೂರವಾಣಿ ಕೇಂದ್ರ ಹಾಗೂ ವಿದ್ಯುತ್ ಟ್ರಾನ್ಸ್‌ಫಾರ್ಮರ್ ಮೂಲಕ ಸಾಗಿ ಎಡಭಾಗಕ್ಕೆ ತಿರುಗುವ ಚಿಕ್ಕ ಗಲ್ಲಿ ಹಮ್ಮಿದ್ದು ಸಾಬ್ ಇವರ ಮೂಲೆ ಮನೆವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಅಹ್ಮದ್ ರಚ ಸರ್ಕಾರ್ ಮುಂಭಾಗದಿಂದ ಘನಿಸಾಬ್ ಇವರ ಮಳಿಗೆ ಕಿರಾಣಿ ಅಂಗಡಿಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಆಜಾದ್ ನಗರದ ಕಡೆ ಸಾಗಿ ಟಿಂಬರ್ ಅನ್ನರ್ ಸಾಬ್ ಡಿಮೋ ವರೆಗೆ ಮತ್ತು ಸಿ.ಎಸ್.ಬಾಪಾಸಾಬ್ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಬ್ಯಾಂಕ್ ಮೂಲಕ ಹಿಮ್ಮತ್ ನಗರ ಕಡೆ ಹೋಗುವ ರಸ್ತೆ ಇಬ್ರಾಹಿಂ ಸಾಬ್ ಮೂಲೆ ಮನೆವರೆಗೆ
26	ವಾದ್ಯೋ 26	ಉತ್ತರ	ಆಜಾದ್ ನಗರ ಮೂಲೆಗಿರುವ ಶಿವಣಿನ ಮನೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ವಜೀರ್ ಸಾಬ್ ಮಟನ್ ಸ್ವಾಲ್ ಮೂಲಕ ಸಾಗಿ ಟಿಂಬರ್ ಅನ್ನರ್ ಸಾಬ್ ಮನೆವರೆಗೆ.
		ದಕ್ಕಣ	ಬಸವೇಶ್ವರ ಟಾಕೀಸ್ ರಸ್ತೆಯ ಮೂಲೆಯಲ್ಲಿರುವ ಜಲೀಲ್ ಸಾಬ್ ರವರ ಇಲಾಹಿ ಮಂಜಿಲ್ ನಿಂದ ಮೂವಾರ್ಭಿಮುಖಿವಾಗಿ ಡಿ.ಸಿ.ಬಂಗ್ ಕಡೆ ಸಾಗಿ ವಿದ್ಯಾವಿಕಾಸ ಶಾಲೆ ಮೂಲೆಯಲ್ಲಿರುವ ಪ್ರದ್ಯಮ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ನವರೆಗೆ.
		ಮೊವ್ರೆ	ವಿದ್ಯಾವಿಕಾಸ ಶಾಲೆ ಮುಂಭಾಗದಲ್ಲಿರುವ ಪ್ರದ್ಯಮ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಬಡಾಮಕಾನ್ ರಸ್ತೆ ಮೂಲಕ ಸಾಗಿ ಮೂಲೆಗಿರುವ ವರ್ಕಷಾಪ್ ಮತ್ತು ಹೊರಪೇಟೆ ಮಸೀದಿ ರಸ್ತೆಯಲ್ಲಿರುವ ರಚಾಕ್ ಸಾಬ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಅಜಾದ್ ನಗರ ಟಿಂಬರ್ ಅನ್ನರ್ ಸಾಬ್ ಮನೆವರೆಗೆ.

ಕ್ರ. ಸಂ.	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ಪಶ್ಚಿಮ	ಬಸವೇಶ್ವರ ರಸ್ತೆಯಲ್ಲಿರುವ ಇಲಾಹಿ ಮಂಡಿಲ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಅಂಜಮಾನ್ ಬಿಲ್ಲಿಂಗ್ ಮುಖೇನವಾಗಿ ಸಾಗಿ ಎಡಭಾಗಕ್ಕೆ ತಿರುಗಿ ಪುನಃ ಬಲಭಾಗಕ್ಕೆ ತಿರುಗಿ ಗೋಪಾಲಪುರ ರಸ್ತೆ ಮೂಲೆ ಕೃಷ್ಣಸಾಗರ ಬೇಕರಿಯಿಂದ ಅಜಾದ್ ನಗರ ಕ್ರಾಸ್ ಮೂಲೆಯಲ್ಲಿರುವ ಶಿವಣ್ಣನ ಮನೆಯವರೆಗೆ.
27	ವಾರ್ಡ್ 27	ಉತ್ತರ	ಹಿಮುತ್ತೊ ನಗರ (ಡಾ: ಪ್ರಭಾಕರ್ ಮನೆ ಹಿಂಭಾಗ) ವೆಂಕಟೇಶಪ್ಪನ ಮನೆ ಮೂಲಕ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗುವ ಜಿಕ್ಕೆ ಗಲ್ಲಿ ಮಾಸ್ಪರ್ ಸಿದ್ಧಪ್ಪನ (ಜೆ.ಸಿ.ಆರ್.ರಸ್ತೆಯಲ್ಲಿರುವ) ಬಿಲ್ಲಿಂಗ್ ವರೆಗೆ. ಮತ್ತು ಬಸವೇಶ್ವರ ಟಾಕೇಸ್ ರಸ್ತೆಯಲ್ಲಿರುವ ವಕೀಲರ ಸ್ವಲ್ಪೇಹ ಸಾಬ್ ಕಾಂಪ್ಲೇಕ್ಸ್‌ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಧಿಯೋಸೋಫಿ ಸೋಸೈಟಿ ಕಾಂಪ್ಲೇಕ್ಸ್‌ನವರೆಗೆ.
		ದಕ್ಷಿಣ	ಕೋ ಆಪರೇಟಿವ್ ಸೋಸೈಟಿ ಕಾಂಪ್ಲೇಕ್ಸ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ವಾಸವಿ ಸರ್ಕಾರ್ ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ ವಸತಿ ಗೃಹ ಮೂಲೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಮೈಸೂರ್ ಬ್ಯಾಂಕ್ ( ಎಸ್.ಬಿ.ಇ) ಕಟ್ಟಡದ ಕೌಂಪೌಂಡ್ ಮೂಲೆಯವರೆಗೆ
		ಮೊರ್ವ	ಜೆ.ಸಿ.ಆರ್.ಮುಖ್ಯರಸ್ತೆಯಲ್ಲಿ ಬರುವ ಮಾಸ್ಪರ್ ಸಿದ್ಧಪ್ಪನವರ ವಾಣಿಜ್ಯ ಕಟ್ಟಡದಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಎಂ.ಆರ್.ಪಿ.ಕಾಂಪ್ಲೇಕ್ಸ್ ಮುಖೇನ ಸಾಗಿ ಎಸ್.ಟಿ.ವಾಸುದೇವರೆಡ್ಡಿಯವರ ಹೆಚ್.ಎಲ್ ಬಂಕಾಗೆ ಬಂದು ನಿಂತು ತರುವಾಯ ರಸ್ತೆದಾಟಿ ಗಾಯತ್ರೀ ಕಲ್ಯಾಣ ಮಂಟಪದ ಮೂಲಕ ವಾಸವಿ ಸರ್ಕಾರ್ ಬಳಿ ಇರುವ ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ ವಸತಿ ಗೃಹದ ಕೌಂಪೌಂಡ್‌ಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಮೈಸೂರ್ ಬ್ಯಾಂಕ್ ( ಎಸ್.ಬಿ.ಇ) ಕಟ್ಟಡದ ಕೌಂಪೌಂಡ್ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಧಿಯೋಸಿಕಲ್ ಸೋಸೈಟಿ ವಾಣಿಜ್ಯ ಕಟ್ಟಡದ ಮೂಲೆಗೆ ನಿಂತು ಬಲಕ್ಕೆ ತಿರುಗಿ ಬಸವೇಶ್ವರ ಟಾಕೇಸ್ ಪಕ್ಕದಲ್ಲಿರುವ ವಕೀಲರಾದ ಸ್ವಲ್ಪೇಹ ಸಾಬ್ ಇವರ ವಾಣಿಜ್ಯ ಕಟ್ಟಡಕ್ಕೆ ನಿಂತು ವಿಧ್ಯಾ ವಿಕಾಸ ಶಾಲೆಯ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬಡಾಮಕಾನ್ ಮುಖ್ಯ ದ್ವಾರದ ಮೂಲಕ ಸಾಗಿ ಸಾದರ್ ಸೈಕಲ್ ಶಾಪ್ ವರೆಗೆ ಬಲಕ್ಕೆ ತಿರುಗಿ ಜೆ.ಜೆ.ಹಟ್ಟಿ ಮುಖ್ಯರಸ್ತೆಯ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಹಳೆ ಬಿ.ಎಸ್.ಎನ್.ಎಲ್ ದೂರವಾಣಿ ಕೇಂದ್ರದ ಮೂಲಕ ಹಾಫೀಜ್ ಸೂರತಿ ಸಾಬ್ ಮನೆ ಸುತ್ತುವರೆದು ಸಾರ್ವಜನಿಕ ಶೈಕ್ಷಾಯಲದ ಮುಂಭಾಗದಿಂದ ಸಾಗಿ ವೇಂಕಟೇಶಪ್ಪನ ಮನೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
28	ವಾರ್ಡ್ 28	ಉತ್ತರ	ಅರಣ್ಯ ಇಲಾಖೆಯ ಮುಂಭಾಗದ ವಿದ್ಯಾವರ್ಥಕ ಪಟ್ಟಿಕ್ ಶಾಲೆ ಕಾಂಪೌಂಡ್ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಐಶ್ವರ್ಯ ಹೋಟೇಲ್ ವರೆಗೆ ಬಂದು ಬಲಕ್ಕೆ ತಿರುಗಿ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಎಸ್.ಟಿ.ಆಫೀಸ್ ರಸ್ತೆ ಮೂಲಕ ಮುನ್ಸಿಪಲ್ ಕಾಲೋನಿ ಮುಖ್ಯರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ತಿಮ್ಮಾರೆಡ್ಡಿ ಮನೆಯಿಂದ ಮೂರಾಭಿಮುಖವಾಗಿ ಗಣೇಶ ದೇವಸ್ಥಾನ ಪಕ್ಕಾಕ್ರಿಯವ ಲಲಿತಮೃಂತವರ ಮನೆವರೆಗೆ.
		ದಕ್ಷಿಣ	ಸ್ವಾಮಿ ವಿವೇಕಾನಂದ ಪಾರ್ಕ್ ಮೂಲೆಯಿಂದ ಮೂರಾಭಿಮುಖವಾಗಿ ಜಿಲ್ಲಾ ಆಸ್ಪತ್ರೆ ಮುಂಭಾಗದಿಂದ ಸಾಗಿ ಬೆಂಗಳೂರು ರಸ್ತೆ ಮೂಲಕ ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ. ಗೆಸ್ಟ್ ಹೌಸ್ ಮೂಲೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಮೊರ್ವ	ಬೆಂಗಳೂರು ರಸ್ತೆ ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ. ಗೆಸ್ಟ್ ಹೌಸ್ ಹಿಂದಿನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗುವ ದೊಡ್ಡ ಚರಂಡಿ ಅಕ್ಕಮಹಾದೇವಿ ಸಮಾಜದ ಕಟ್ಟಡದ ಮೂಲೆವರೆಗೆ ಹೋಗಿ ಪುನಃ ಸದರಿ ಚರಂಡಿ ಅಂಬಾಭವಾನಿ ದೇವಸ್ಥಾನ ಕಾಂಪೌಂಡ್ ಪಕ್ಕದಲ್ಲಿ ಹರಿದು ಹೋಗುವ ಚರಂಡಿಯನ್ನು ಮೂರ್ವದ ಸರಹದ್ದು ಆಗಿದ್ದು ಗಣೇಶನ ದೇವಸ್ಥಾನದ ಎಡಭಾಗಕ್ಕಿರುವ ಲಲಿತಮೃಂತ ಮನೆವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಸರ್ಕಾರಿ ಆಸ್ಪತ್ರೆ ಮುಂಭಾಗದಲ್ಲಿರುವ ಸ್ವಾಮಿವೇಕಾನಂದ ಪಾರ್ಕ್ ಮೂಲೆ ಸರ್ಕಾರ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ನಗರಸಭೆ ಕಚೇರಿ ಮುಂಭಾಗದಿಂದ ತಿರುಗಿ ಪುನಃ ಎಡಕ್ಕೆ ತಿರುಗಿ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಗಾಯತ್ರೀ ಸರ್ಕಾರ್ ಮೂಲಕ ಘಾರೆಸ್ಟ್ ಮೂಲೆಗಿರುವ ವಿದ್ಯಾವರ್ಥಕ ಪಟ್ಟಿಕ್ ಶಾಲೆ ಕಾಂಪೌಂಡ್.
29	ವಾರ್ಡ್ 29	ಉತ್ತರ	ಆರ್.ಟಿ.ಪಿ. ಆಫೀಸ್ ಮೂಲೆಯಿಂದ ಎನ್.ಹೆಚ್.-4 ಮೂಲಕ ಮೂರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಬಲಕ್ಕೆ ತಿರುಗಿ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಬರುತ್ತಾ ಹೋಟೇಲ್ ನೇನ್‌ನ ರೆಸಿಡೆನ್ಸಿ ಪಕ್ಕಾಕ್ರಿಯವ ಲಲಿತಮೃಂತದೆ.

ಕ್ರ. ಸಂ.	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ದಕ್ಷಿಣ	ಎಸ್.ಪಿ. ಆಫೀಸ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ನಿವೃತ್ತ ಇಂಜಿನಿಯರ್ ಹಬೀಬ್ ರೆಹಮಾನ್ ಮನೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಮುನ್ವಿಪಲ್ ರಸ್ತೆ ಸಾಗಿ ಭುವನೇಶ್ವರ ವೃತ್ತದಲ್ಲಿರುವ ಪ್ರಹಳಾದ್ ಗುಪ್ತ ಇವರ ಮನೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಮೂರ್ವ	ಮುನ್ವಿಪಲ್ ಕಾಲೋನಿ ಭುವನೇಶ್ವರ ವೃತ್ತ ಮೂಲೆಯಲ್ಲಿರುವ ಪ್ರಹಳಾದ್ ಗುಪ್ತ ರವರ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಕೆ.ಇ.ಬಿ. ಕೃಷ್ಣಪ್ಪ ಮನೆವರೆಗೆ ಸಾಗಿ ಬಲ ಭಾಗಕ್ಕೆ ತಿರುಗಿ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ದಿವಾಕರ್ ರವರ ಮನೆಯಿಂದ ಕೆ.ಎಸ್.ಚಂದ್ರಶೇಖರ್ ರವರ ಮೂಲೆ ಮನೆಯಿಂದ ಎಡಕ್ಕೆ ತಿರುಗಿ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿಯಲ್ಲಿರುವ ಹೋಟೆಲ್ ನವೀನ್ ರೆಸಿಡೆನ್ಸಿಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಎಸ್.ಪಿ. ಆಫೀಸ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ನಿವೃತ್ತ ಇಂಜಿನಿಯರ್ ಹಬೀಬ್ ರೆಹಮಾನ್ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ತುರುವನೂರು ರಸ್ತೆಯ ಮೂಲಕ ಸಾಗಿ ಆರ್.ಟಿ.ಬಿ.ಕಚೇರಿ ಮೂಲೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ. ಜೊತೆಗೆ ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ ಪಕ್ಕದಲ್ಲಿರುವ ತುರುವನೂರು ರಸ್ತೆ ಎಡಭಾಗದಲ್ಲಿರುವ ಶ್ರೀ ವೆಂಕಟರಮಣಸ್ಥಾಮಿ ಲೇಟೆಟ್ ಮನೆಗಳು ಸೇರುತ್ತವೆ.
30	ವಾರ್ಡ್ 30	ಉತ್ತರ	ಸವೀಸ್ ರಸ್ತೆ ಎಡಕ್ಕೆ ಇರುವ ದಿವಂಗತ ಡಾ:ಸುರೇಶ್ ಬಾಬು ಮನೆ ಪಕ್ಕ ಇರುವ ನಿವೇಶನದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ, ಶಾರದ ಶಿಶುವಿಹಾರ ಬಲಕ್ಕೆ ತಿರುಗಿ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ, ಎ.ಸಿ.ಆಫೀಸ್ ರುದ್ರಪ್ಪನ ಮನೆ ಕೊನೆಗೊಂಡು ಎಡಕ್ಕೆ ತಿರುಗಿ, ಸಹಾಯಕ ನಿರ್ದೇಶಕರಾದ ರಾಮಲಿಂಗಯ್ಯರವರ ಮನೆಯಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ, ಗಣೇಶನ ದೇವಸ್ಥಾನದ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಆಕಾಶವಾಣಿ ರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ಮುನ್ವಿಪಲ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ಮೂಲೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಚನ್ನಕೇಶವ ದೇವಸ್ಥಾನಕ್ಕೆ ಕೊನೆಗೊಂಡು, ಎಡಕ್ಕೆ ತಿರುಗಿ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಏಕಲವ್ಯ ವೃತ್ತದಲ್ಲಿರುವ ಉದ್ದನಯ್ಯನವರ ಮನೆಗೆ ನಿಂತು ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಹೌಸಿಂಗ್ ಬೋಡ್ ಎಂ.ಬಿ.ಮನೆಗಳ ಪಕ್ಕದಲ್ಲಿರುವ ಆಂಜನೇಯ ದೇವಸ್ಥಾನದ ವರೆಗೆ.
		ಮೂರ್ವ	ಸವೀಸ್ ರಸ್ತೆಯಲ್ಲಿರುವ ಆಂಜನೇಯ ದೇವಸ್ಥಾನದ ದಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಸವೀಸ್ ರಸ್ತೆ ಮೂಲಕ ಸಾಗಿ ದಿವಂಗತ ಡಾ:ಸುರೇಶ್ ಬಾಬು ರವರ ಮನೆ ಮೂಲೆಯವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಲಾ ಕಾಲೇಜು ಕಾಂಪ್ಲೆಕ್ಸ್ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಹರಿದು ಹೋಗುವ ದೊಡ್ಡ ಚರಂಡಿ ಅಂಭ ಭವಾನಿ ದೇವಸ್ಥಾನದ ಕೌಂಪೋಂಡ್ ಮೂಲಕ ಮುನ್ವಿಪಲ್ ಕಾಲೋನಿ ಮುಖ್ಯರಸ್ತ ಗಣೇಶನ ದೇವಸ್ಥಾನಕ್ಕೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ. ಮನೆ: ಬಲಕ್ಕೆ ತಿರುಗಿ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಭುವನೇಶ್ವರ ವೃತ್ತದಲ್ಲಿರುವ ನಿವೃತ್ತ ತಹಶೀಲ್ದೂರ್ ರಾಜಣ್ಯನವರ ಮನೆಯ ಮುಖೀನ ಸಾಗಿ ಎ.ಸಿ.ಆಫೀಸ್ ರುದ್ರಪ್ಪನ ಮನೆಯವರೆಗೆ ಕೊನೆಗೊಳ್ಳುತ್ತದೆ. ಮನೆ: ಬಲಕ್ಕೆ ತಿರುಗಿ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಕೊನೆಯಲ್ಲಿ ಶಾರದ ಶಿಶುವಿಹಾರಕ್ಕೆ ನಿಂತು ರಸ್ತೆ ದಾಟಿಕೊಂಡು ಮನೆ: ಉತ್ತರಕ್ಕೆ ತಿರುಗಿ ಡಾ:ಎಂ.ಟಿ.ಸುರೇಶ್ ಬಾಬು ರವರ ನಿವೇಶನಕ್ಕೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
31	ವಾರ್ಡ್ 31	ಉತ್ತರ	ಸರಸ್ವತಿ ಕಾನೂನು ಕಾಲೇಜು ಕಾಂಪ್ಲೆಕ್ಸ್ ಮೂಲೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ಸಾಗಿ ಸುನೀತ ನಸಿಂಗ್ ಹೋಂ. ಡಾ: ರಾಮಚಂದ್ರನಾಯಕ ರವರ ಮನೆ ಮೂಲಕ ಹೌಸಿಂಗ್ ಬೋಡ್ (ಎಂ.ಬಿ) ಮೂಲೆಯಲ್ಲಿರುವ ನೀರಿನ ಓವರ್ ಹೆಡ್ ಟ್ಯಾಂಕ್ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ ಹಳೆ ಡಿಪೋ ಕೌಂಪೋಂಡ್ ಮೂಲೆಯಿಂದ ಮೂವಾರ್ಭಿಮುಖವಾಗಿ ನೇರವಾಗಿ ಲಂಬಾಣಿ ಹಾಸ್ಪಿಲ್ ಪಕ್ಕದಲ್ಲಿರುವ ನೀಲಾದ್ವಿ ಪೆಟ್ಲೋಲ್ ಬಂಕ್ ಮೂಲೆ ವರೆಗೆ.
		ಮೂರ್ವ	ಲಂಬಾಣಿ ಹಾಸ್ಪಿಲ್ ಪಕ್ಕದಲ್ಲಿರುವ ನೀಲಾದ್ವಿ ಪೆಟ್ಲೋಲ್ ಬಂಕ್ ನಿಂದ ಸವೀಸ್ ರಸ್ತೆ ಮನೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ನೇರವಾಗಿ ಸಾಗಿ,( ಕೆ.ಹೆಚ್.ಬಿ. ಮತ್ತು ಎಂ.ಬಿ.ಜಿ) ಮೂಲೆಯಲ್ಲಿರುವ ನೀರಿನ ಓವರ್ ಹೆಡ್ ಟ್ಯಾಂಕ್ಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಬೆಂಗಳೂರು ರಸ್ತೆ ಹಳೆ ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ. ಡಿಪೋ ಕೌಂಪೋಂಡ್ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖವಾಗಿ ಹರಿದು ಹೋಗುವ ದೊಡ್ಡ ಚರಂಡಿಯ ಮೂಲಕ ಸಾಗಿ ಲಾ ಕಾಲೇಜ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ವರೆಗೆ.

ಕ್ರ. ಸಂ.	ವಾದ್ಯೋ ಸಂಪೂರ್ಣ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
32	ವಾದ್ಯೋ 32	ಉತ್ತರ	ಆರ್.ಟಿ.ಎ ಕಚೇರಿ ಕೊಂಪೌಂಡ್ ಮೂಲೆಯಿಂದ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ ದಾಟ ಕೊಂಡು ಹೈಸಿಂಗ್ ಬೋಡ್‌, ಬನಶಂಕರಿ ಲೇಜೆಟ್‌ಗೆ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಸರಸ್ವತಿ ಮರಂ ಸರಕಲ್ ಸ್ವಧಾತ್ರೇಕ ತರಬೇತಿ ಕೇಂದ್ರ, ಕಟ್ಟಡದಿಂದ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಸರಸ್ವತಿ ಮರಂ 1,2,3 ನೇ ಎಡಭಾಗದ ಕ್ರಸ್ ಗಳನ್ನು ದಾಟಕೊಂಡು ಮುಂದುವರೆದು ಐ.ಯು.ಡಿ.ಪಿ.1ನೇ ಕ್ರಸ್ ಮೂಲೆಯಲ್ಲಿ ಬರುವ ಪೂಲೀಸ್ ಇಲಾಖೆಯ ಎನ್.ಬೀಮಪ್ಪ ಇವರ ಮನೆಯ ಹಿಂಭಾಗದ ದೊಡ್ಡ ಚರಂಡಿಯ ಮುಖೇನ 5ನೇ ಕ್ರಸ್ ಅಂತ್ಯಗೊಳ್ಳುತ್ತದೆ.
		ಮೂರ್ವ	ದಕ್ಷಿಣದಲ್ಲಿ ಹೇಳಿರುವ ಚಿಕ್ಕುಬಂದಿ ಅಂದರೆ ಐ.ಯು.ಡಿ.ಪಿ. 5ನೇ ಕ್ರಸ್ ಹೌರಾಯುಕ್ತರ ಮನೆಯ ಮೂಲೆಯಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬಲಕ್ಕೆ ಬೆಂಗಳೂರು ರಸ್ತೆಗೆ ತಿರುಗಿ ನಾಮ್ಮಲ್ ಗ್ರಾಮೇಜ್ ಹೆದ್ದಾರಿ ದಾಟಕೊಂಡು ಉಪಾಧಾಯ ಹೋಟೀಲ್ ಪಕ್ಕದಿಂದ ಜಮೀನಿನ ಪ್ರದೇಶಗಳ ಮೂಲಕ ಚಳ್ಳಕೆರೆ ರಸ್ತೆಯ ಮೂಲಕ ವೆಂಕಟೇಶ್ವರ ಬಡಾವಣೆ, ಬನಶಂಕರಿ ಬಡಾವಣೆ ಒಳಗೊಂಡು ಆರ್.ಟಿ.ಎ.ಕಚೇರಿ ಕೊಂಪೌಂಡ್ ಮೂಲೆಯ ವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಚಳ್ಳಕೆರೆ ರಸ್ತೆಯ ಬಳಿಯಿರುವ ಮಾಗನೂರು ಬಸಪ್ಪ ನವರ ಪೇಟ್ಟೋಲ್ ಬಂಕ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬಲಗಡೆಗೆ ಡಾನ್.ಬೋಸ್ಕ್ ಶಾಲೆ, ಬಸವೇಶ್ವರ ಹಾಸ್ಪಿಟಲ್ ಹೈಸಿಂಗ್ ಬೋಡ್‌ ಕಾಲೋನಿ ರಸ್ತೆ ಮುಖೇನ ಸರೋಜಬಾಯಿ ಕಲ್ಯಾಣ ಮಂಟಪ ಹಾಗೂ ನವೀನ ರಿಜಿಸ್ಟ್ರಿಸ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ಪೇಟ್ಟೋಲ್ ಬಂಕ್ ವರೆಗೆ.
33	ವಾದ್ಯೋ 33	ಉತ್ತರ	ಜ್ಯೇಲ್ ಬಿಲ್ಲೀಂಗ್ ಮೂಲೆಯಿಂದ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಜಿಲ್ಲಾ ಆಸ್ತ್ರೇಲ್ ಮುಖೇನ ಸಾಗಿ ಸ್ವೇಡಿಯಂ ಡೆಬಲ್ ರಸ್ತೆ ಮೂಲೆಯಲ್ಲಿರುವ ಕ್ರಾರಿಕಾ ಇಲಾಖೆ ಕಟ್ಟಡಕ್ಕೆ ಹೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ದಕ್ಷಿಣ	ಜೋಗಿಮಟ್ಟಿ ರಸ್ತೆಯಿಂದ ಲೆಕ್ಕರ್ ಈ-ಕೊಂಟ್ಸ್ ಮನೆಯಿಂದ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸ್ವೇಡಿಯಂ ಮುಂಭಾಗದ ಜ್ಯೇಭೀಮ್ ಸರಕಲ್ ವರೆಗೆ.
		ಮೂರ್ವ	ಸ್ವೇಡಿಯಂ ಮುಂಭಾಗದ ಜ್ಯೇಭೀಮ್ ಸರಕಲ್ ಮುಂಭಾಗದಲ್ಲಿರುವ ಅನುಗ್ರಹ ಕಾಂಪ್ಲೆಕ್ಸ್ ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬೆಂಗಳೂರು ರಸ್ತೆ ಮೂಲೆಗಿರುವ ಕನಾಟಕ ಕ್ರಾರಿಕಾ ಇಲಾಖೆ ಕಟ್ಟಡದವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಜಿಲ್ಲಾ ಆಸ್ತ್ರೇಲ್ ಪಕ್ಕದಲ್ಲಿರುವ ಜ್ಯೇಲ್ ಕಟ್ಟಡದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಜೋಗಿಮಟ್ಟಿ ಮುಖ್ಯರಸ್ತೆ ಮೂಲಕ ಸಾಗಿ ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮುಂಭಾಗದ ಮೂಲೆಯಲ್ಲಿರುವ ಲೆಕ್ಕರ್ ಈ-ಕೊಂಟ್ಸ್ ಮನೆವರೆಗೆ.
34	ವಾದ್ಯೋ 34	ಉತ್ತರ	ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನದ ಮೂಲೆಯಿಂದ ಜ್ಯೇಭೀಮ್ ಸರಕಲ್ ಮುಂದೆ ಇರುವ ಶೆಕ್ಕಾಂತರ ಮನೆವರೆಗೆ ಮತ್ತು ಸ್ವೇಡಿಯಂ ರಸ್ತೆ ಮೂಲೆಗಿರುವ ಸರಕಾರಿ ಜೂನಿಯರ್ ಕಾಲೋಜ್ ನಿಂದ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಬೆಂಗಳೂರು ರಸ್ತೆ ಮೂಲಕ ಪಂಚಭಾಯ್ ಕಲ್ಯಾಣ ಮಂಟಪ ಹಿಂಭಾಗದಲ್ಲಿರುವ ಈಶ್ವರ ದೇವಸ್ಥಾನದ ವರೆಗೆ.
		ದಕ್ಷಿಣ	ಜೋಗಿಮಟ್ಟಿ ರಸ್ತೆ ಸ್ವಾಮಿ ವಿವೇಕಾನಂದ ನಗರ ಮುಂಭಾಗದಲ್ಲಿರುವ ನಾಗರಾಜಪ್ಪ ಲೇಜೆಟ್ ಮತ್ತು ಸಿ.ಟಿ.ಕೃಷ್ಣಮೂರ್ತಿ ಲೇಜೆಟ್ ಪಕ್ಕಕೆರುವ ಗುಡ್ಡದ ಪ್ರದೇಶ.
		ಮೂರ್ವ	ಪಂಚಭಾಯ್ ಕಲ್ಯಾಣ ಮಂಟಪ ಮುಂಭಾಗದ ಈಶ್ವರ ದೇಗುಲದಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ವಿಜ್ಞಾನ ಕಾಲೋಜ್ ಮತ್ತು ಕಲಾ ಕಾಲೋಜ್ ಮಧ್ಯದಲ್ಲಿರುವ ರಸ್ತೆ ಮುಖಾಂತರ ಸಾಗಿ ಜಿಲ್ಲಾ ಪಂಚಭಾಯ್ ಸಭಾಂಗಣ ಸುತ್ತುವರಿದು ಸ್ವೇಡಿಯಂ ಸುತ್ತುವರಿದು ಮಹಿಳಾ ತರಬೇತಿ ಕೇಂದ್ರ ಹಿಂಭಾಗದಿಂದ ಸಿ.ಟಿ.ಕೃಷ್ಣಮೂರ್ತಿ ಇವರ ಲೇಜೆಟ್‌ಗೆ ಹೊನೆಗೊಳ್ಳುತ್ತದೆ.
		ಪಶ್ಚಿಮ	ಸ್ವಾಮಿ ವಿವೇಕಾನಂದ ನಗರ ಮುಂಭಾಗದಲ್ಲಿರುವ ನಾಗರಾಜಪ್ಪ ಲೇಜೆಟ್ (ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ.ನೋಕರ್) ನಿಂದ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಜೋಗಿಮಟ್ಟಿ ರಸ್ತೆಯ ಮೂಲಕ ಬಂದು ತಿಪ್ಪಿನಫಟ್ಟಮ್ಮೆ ದೇವಸ್ಥಾನ ಸುತ್ತಿ ಬಲಕ್ಕೆ ತಿರುಗಿ ಪೂರ್ವಾಭಿಮುಖಿವಾಗಿ ಸಾಗಿ ಶೆಕ್ಕಾಂತ (ಸಿದ್ದೇಶ್ವರ ನಿಲಯ) ನಿಂತು ಎಡಕ್ಕೆ ತಿರುಗಿ ಉತ್ತರಾಭಿಮುಖಿವಾಗಿ ಸ್ವೇಡಿಯಂ ರಸ್ತೆ ಮೂಲಕ ಬೆಂಗಳೂರು ರಸ್ತೆ ನಿಲ್ಲುತ್ತದೆ.

ಕ್ರ. ಸಂ.	ವಾದೋ ಸಂಪೂರ್ಣ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
35	ವಾದೋ 35	ಉತ್ತರ	ನಾಮ್ಮುಲ್ಲೊ ಗ್ಯಾರೇಜ್‌ನಿಂದ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಸವೀನ್‌ಸ್‌ ರಸ್ತೆಯ ಮುಖೀನ ಪ್ರಗತಿ ಕೃಷ್ಣ ಬ್ಯಾಂಕ್ ವರೆಗೆ. ನಂತರ ಐ.ಯು.ಡಿ.ಬಿ. 5ನೇ ಕ್ರೂಸ್ ಪಾರ್ಕ್ ಪಕ್ಕದ ದೊಡ್ಡಜರಂಡಿ ಮೂಲಕ 1ನೇ ಕ್ರೂಸ್ ಐ.ಯು.ಡಿ.ಬಿ.ಯಲ್ಲಿರುವ ಭೀಮಪ್ಪನ ಮನೆಯವರೆಗೆ ನಂತರ ಪಶ್ಚಿಮಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಸರ್ಕಾರಿ ಕಲಾ ಕಾಲೇಜು ಹಾಸ್ಟೆಲ್ ವರೆಗೆ
		ದಕ್ಷಿಣ	ಗಾಂಥಿ ನಗರ ದಕ್ಷಿಣಕ್ಕೆ ಇರುವ ಗುಡ್ಡದ ಪ್ರದೇಶ ಹಾಗೂ ಅಶ್ರಯ ಬಡಾವಣೆಯ ಲೇಜೆಟ್ ಪ್ರದೇಶ ಮತ್ತು ಗುಡ್ಡದ ವರೆಗೆ.
		ಮೊರ್ಕೆ	ನಾಮ್ಮುಲ್ಲೊ ಗ್ಯಾರೇಜ್‌ನಿಂದ ದಕ್ಷಿಣಾಭಿಮುಖವಾಗಿ ಸಾಗಿ ಗಾಂಥಿನಗರದ ದಕ್ಷಿಣಕ್ಕೆ ಇರುವ ಗುಡ್ಡದ ವರೆಗೆ.
		ಪಶ್ಚಿಮ	ಪಂಚಕಾರ್ಯ ಕಲ್ಯಾಣ ಮಂಟಪ ಮುಂಭಾಗದಲ್ಲಿ ಬರುವ ಸರ್ಕಾರಿ ಕಲಾ ಕಾಲೇಜು ಮತ್ತು ವಿಜ್ಞಾನ ಕಾಲೇಜು ಮಧ್ಯದಲ್ಲಿ ಹಾದು ಹೋಗುವ ರಸ್ತೆಯ ಮೂಲಕ ಸಾಗಿ ಗುಡ್ಡದ ಎಡಭಾಗದ ಪ್ರದೇಶ.

ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ  
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು  
ಚಿತ್ರದುರ್ಗ ಜಿಲ್ಲೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-III

ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೭, ೨೦೧೭ (ಶ್ರಾವಣ ೫, ಶಕ ವರ್ಷ ೧೯೩೯)

ನಂ. ೪೮೫

Part-III Bengaluru, Thursday, July 27, 2017 (Shrawana 5, Shaka Varsha 1939)

No. 713

ಚಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ, ಚಿತ್ರದುರ್ಗ

ಅಂತಿಮ ಅಧಿಸೂಚನೆ

ನಂ. ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(3)/2016.17 ದಿನಾಂಕ: 24.07.2017

ಸರ್ಕಾರದ ನಿರ್ದೇಶನ ಮತ್ತು ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಯುದ್ದಿಡಿ 4 ಎಂಎಲ್‌ಆರ್ 2014 ದಿನಾಂಕ: 15/02/2014ರಲ್ಲಿನ ಮಾರ್ಗಸೂಚಿಯನ್ವಯ ನಗರ ಸ್ಥಳೀಯ ಸಂಸ್ಥೆಗಳಿಗೆ ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣ ಮಾಡಬೇಕಾಗಿರುತ್ತದೆ. ಸದರಿಯನ್ವಯ ಮೊಳಕಾಲ್ಯಾರು ಪಟ್ಟಣ ಪಂಚಾಯಿತ್ತಿ 16 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣ ಮಾಡಿ ವಾರ್ಡ್ ಮತ್ತು ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ರಚಿಸಿ ಕರಡು ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ:ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(3)/2016.17 ದಿನಾಂಕ: 05.06.2017ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಧಿಸೂಚನೆಯನ್ನು ವಿಶೇಷ ರಾಜ್ಯ ಪತ್ರದ ಭಾಗದ III ಸಂಖ್ಯೆ 464 ದಿನಾಂಕ: 05.06.2017 ರಂದು ಪ್ರಕಟಿಸಿ ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಸಾರ್ವಜನಿಕರು ಯಾವುದೇ ಆಕ್ಷೇಪಣ ಅಥವಾ ಸಲಹೆ ಸೂಚನೆಗಳಿದ್ದಲ್ಲಿ ಈ ಕರಡು ಅಧಿಸೂಚನೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 15 ದಿನದೊಳಗಾಗಿ ಲಿಖಿತವಾಗಿ ಸಲ್ಲಿಸಲು ಆಹ್ವಾನಿಸಲಾಗಿತ್ತು. ಸದರಿ ಅಧಿಸೂಚನೆಗೆ ಆಕ್ಷೇಪಣ ಅಥವಾ ಸಲಹೆ ಸ್ವೀಕೃತವಾಗಿದ್ದು, ಪರಿಶೀಲಿಸಿ ಇತ್ತುಧ್ವನಿಪಡಿಸಲಾಗಿದೆ.

ಪ್ರಯುಕ್ತ ಕರ್ನಾಟಕ ಪೌರಸಭೆಗಳ ಅಧಿನಿಯಮ 1964ರ ಪ್ರಕರಣ 13 ರಂತೆ ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ, ಚಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ ಆದ ನಾನು ಮೊಳಕಾಲ್ಯಾರು ಪಟ್ಟಣ ಪಂಚಾಯಿತ್ತಿ 16 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಅನುಬಂಧ ಅಂಕಣ (2)ರಲ್ಲಿ ಘೋಷಿಸಿರುವ ವಾರ್ಡ್‌ಗಳಿಗೆ ಅಂಕಣ (4)ರಲ್ಲಿ ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ಅಧಿಸೂಚನೆಯನ್ನು ಪ್ರಕಟಿಸಿರುತ್ತೇನೆ.

ಅನುಬಂಧ

ಕ್ರ.ಸಂ	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
1	ವಾರ್ಡ್ 1	ಮೂರ್ಕಣಕ್ಕೆ	ಆಂಧ್ರದ ಗಡಿ
		ಪಶ್ಚಿಮಕ್ಕೆ	ಅಂಗನವಾಡಿ ಶಾಲೆ ರಸ್ತೆ (ವಾರ್ಡ್ ನಂಬರ್ 02 ರ ಮತ್ತು 16 ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಪಟ್ಟಣದ ಗಡಿ ಭಾಗ (ಗುಡ್ಡ ಪ್ರದೇಶ)
		ದಕ್ಷಿಣಕ್ಕೆ	ರೈಲ್ವೆ ಹಳ (ಎಸ್.ಸಿ.-ಎಸ್.ಟಿ. ಹಾಸ್ಪಿಲ್ ವರೆಗೆ, ಹೆಚ್. ಆರ್. ರಸ್ತೆಯವರೆಗೆ, ವಾರ್ಡ್ ನಂಬರ್ 16 ರ ಗಡಿ)
2	ವಾರ್ಡ್ 2	ಮೂರ್ಕಣಕ್ಕೆ	ಅಂಗನವಾಡಿ ಶಾಲೆ ರಸ್ತೆ (ವಾರ್ಡ್ ನಂಬರ್ 01 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕ್ಕೆ	ವೆಂಕಣ್ಣ ಬಾವಿಯ ರಸ್ತೆ (ವಾರ್ಡ್ ನಂಬರ್ 03 ಮತ್ತು 04 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಗುಡ್ಡ
		ದಕ್ಷಿಣಕ್ಕೆ	ಹೆಚ್. ಆರ್. ರಸ್ತೆ (ವಾರ್ಡ್ ನಂಬರ್ 15 ರ ಗಡಿ)

ಕ್ರ.ಸಂ	ವಾಡ್‌ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
3	ವಾಡ್ 3	ಮೊವರ್ಕೆ	ವೆಂಕಟ್ ಬಾವಿಯ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 02 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಲಾಲ್ ಬಹಾದೂರ್ ಶಾಸ್ತ್ರಿ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 04 ಮತ್ತು 05 ರ ಗಡಿ)
		ಉತ್ತರಕೆ	ಗುಡ್ಡ
		ದಕ್ಷಿಣಕೆ	ಖಾಧಿ ಮೊಹಲ್ಲಾದ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 04)
4	ವಾಡ್ 4	ಮೊವರ್ಕೆ	ವೆಂಕಟ್ ಬಾವಿಯ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 02 ರ ಗಡಿ) ಮತ್ತು ಲಾಲ್ ಬಹಾದೂರ್ ಶಾಸ್ತ್ರಿ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 03 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಮಹಾತ್ಮ ಗಾಂಧಿ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 05 ರ ಗಡಿ)
		ಉತ್ತರಕೆ	ಖಾಧಿ ಮೊಹಲ್ಲಾ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 3 ರ ಗಡಿ) ಮತ್ತು ದೊಡ್ಡ ಪೇಟಿ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 05 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ಹೆಚ್. ಆರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 15 ರ ಗಡಿ)
5	ವಾಡ್ 5	ಮೊವರ್ಕೆ	ದವಳಪ್ಪನ ರಸ್ತೆ & ಎಂ. ಜಿ. ರಸ್ತೆ ಭಾಗಶಃ (ವಾಡ್ ನಂಬರ್ 04 & 03 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಹೊಂಡ (ವಾಡ್ ನಂಬರ್ 06 ರ ಗಡಿ)
		ಉತ್ತರಕೆ	ಗುಡ್ಡ
		ದಕ್ಷಿಣಕೆ	ಮಲಿಯಮ್ಮೆ ದೇವಸ್ಥಾನದ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 06 ರ ಗಡಿ)
6	ವಾಡ್ 6	ಮೊವರ್ಕೆ	ಲಾಲ್ ಬಹಾದೂರ್ ಶಾಸ್ತ್ರಿ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 04 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಪಟ್ಟಣದ ಗಡಿ ಭಾಗ
		ಉತ್ತರಕೆ	ಗುಡ್ಡ ಮತ್ತು ಮಲಿಯಮ್ಮೆ ದೇವಸ್ಥಾನದ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 05 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ಹೆಚ್. ಆರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 07, 08 & 11 ರ ಗಡಿ, )
7	ವಾಡ್ 7	ಮೊವರ್ಕೆ	ಕೋನಸಾಗರ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 08 & 09 ರ ಗಡಿ ಹಾಗೂ ಶ್ರೀನಿವಾಸ ನಾಯಕ ಶಾಲೆಯ ಹಿಂಭಾಗ)
		ಪಶ್ಚಿಮಕೆ	ಪಟ್ಟಣದ ಗಡಿ ಭಾಗ (ಸೋಮೇನಹಳ್ಳಿ)
		ಉತ್ತರಕೆ	ಹೆಚ್. ಆರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 06 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ಕೆ. ಹೆಚ್. ಲಕ್ಷ್ಮಣ ರವರ ಮನೆಯ ರಸ್ತೆಯವರೆಗೆ (ವಾಡ್ ನಂಬರ್ 09 ರ ಗಡಿ & ರೈಲ್ವೆ ಹಳೆವರೆಗೆ)
8	ವಾಡ್ 8	ಮೊವರ್ಕೆ	ಸಂತೆ ಮೈದಾನ ಲಿಂಕ್ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 10 ಮತ್ತು 11 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಕೋನಸಾಗರ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 07 ರ ಗಡಿ)
		ಉತ್ತರಕೆ	ಹೆಚ್. ಆರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 06 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ವೆಂಕಟೇಶ್ವರ ಬಡಾವಣೆ, ಸಾಯಿಬಾಬ ದೇವಸ್ಥಾನದ ರಸ್ತೆ (ವಾಡ್ ನಂಂ 09 ರ ಗಡಿ)
9	ವಾಡ್ 9	ಮೊವರ್ಕೆ	ಭಾಗ್ಯಲಕ್ಷ್ಮೀ ಜಿತ್ರಮಂದಿರ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 10 & 11 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಶ್ರೀನಿವಾಸ ನಾಯಕ ಶಾಲೆಯ ಹಿಂಭಾಗ (ವಾಡ್ ನಂಬರ್ 07 ರ ಗಡಿ)
		ಉತ್ತರಕೆ	ಕೆ. ಹೆಚ್. ಲಕ್ಷ್ಮಣ ರವರ ಮನೆಯ ರಸ್ತೆಯವರೆಗೆ (ವಾಡ್ ನಂಬರ್ 07 ರ ಗಡಿ & ಸಂತೆ ಮೈದಾನದ ಲಿಂಕ್ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 08 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ರೈಲ್ವೆ ಹಳೆ
10	ವಾಡ್ 10	ಮೊವರ್ಕೆ	ಬಯಲು ಪ್ರದೇಶ (ವಾಡ್ ನಂಬರ್ 16 ರ ಗಡಿ)
		ಪಶ್ಚಿಮಕೆ	ಎಣ್ಣೆ ಮೀಲ್ ಹಿಂಭಾಗ (ವಾಡ್ ನಂಬರ್ 09 ರ ಗಡಿವರೆಗೆ)
		ಉತ್ತರಕೆ	ದೊಡ್ಡ ಚರಂಡಿ (ವಾಡ್ ನಂಬರ್ 11, 13, 14 ಮತ್ತು 15 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕೆ	ರೈಲ್ವೆ ಹಳೆ

ಕ್ರ.ಸಂ	ವಾಡ್‌ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
11	ವಾಡ್ 11	ಮೂರ್ವಕ್ಕೆ	ಬಿ.ಇ.ಎ. ಆಫೀಸ್ ಕಾಂಪೌಂಡ್ (ವಾಡ್ ನಂಬರ್ 12, 14 ಮತ್ತು 15 ರ ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ಸಂತೆ ವ್ಯೇದಾನ ಲಿಂಕ್ ರಸ್ತೆ ಮತ್ತು ಭಾಗ್ಯಲಕ್ಷ್ಯ ಚಿತ್ರಮಂದಿರ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 08 ಮತ್ತು 09 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಹೆಚ್. ಅರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 06 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ದೊಡ್ಡ ಚರಂಡಿ (ವಾಡ್ ನಂಬರ್ 10 ರ ಗಡಿ)
12	ವಾಡ್ 12	ಮೂರ್ವಕ್ಕೆ	ಆಂಜನೇಯ ದೇವಸ್ಥಾನ ರಸ್ತೆ (ವಾಡ್ ನಂ. 15ರ ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ಬಿ.ಇ.ಬಿ ಆಫೀಸ್ ಕಾಂಪೌಂಡ್ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 11 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಹಾಲು ಜನಾರ್ಥನ ಮನೆಯಿಂದ ರೈಲ್ವೆ ಸ್ವೇಷನ್ ರೋಡ್ ಲಿಂಕ್ ವರೆಗೆ (ವಾಡ್ ನಂ 15 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ಎಲೀಂ ಮನೆಯಿಂದ ನಾರಾಯಣ ಸ್ವಾಮಿ ಮನೆ ಹಾಗೂ ದೊಡ್ಡ ಚರಂಡಿ ವರೆಗೆ (ವಾಡ್ ನಂಬರ್ 14 ರ ಗಡಿ)
13	ವಾಡ್ 13	ಮೂರ್ವಕ್ಕೆ	ಆಂಜನೇಯ ಸ್ವಾಮಿ ದೇವಸ್ಥಾನ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 14 ರ ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ಆಸ್ತ್ರೋಗ್ರಹಿ ಹೋಗುವ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 14 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಎಸ್.ಎಂ.ನರಸಿಂಗ್ ರಾವ್ ಮನೆಯ ಗಲ್ಲಿ ವರಗೆ (ವಾಡ್ ನಂ 14 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ದೊಡ್ಡ ಚರಂಡಿ (ವಾಡ್ ನಂಬರ್ 10 ರ ಗಡಿ)
14	ವಾಡ್ 14	ಮೂರ್ವಕ್ಕೆ	ಆಂಜನೇಯ ದೇವಸ್ಥಾನ ರಸ್ತೆ ( ವಾಡ್ ನಂ 15 ಮತ್ತು 14 ರ ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ರೈಲ್ವೆ ಸ್ವೇಷನ್ ರಸ್ತೆ (ವಾಡ್ ನಂ. 11 ಮತ್ತು 13 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಕಲೀಂ ಮನೆಯಿಂದ ನಾರಾಯಣ ಸ್ವಾಮಿ ಮನೆಯವರಗೆ (ವಾಡ್ ನಂ 12 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ದೊಡ್ಡ ಚರಂಡಿ ಮತ್ತು ಡಾಬ ಮಂಜು ರವರ ಮನೆ ( ವಾಡ್ ನಂ 10 ಮತ್ತು 13 ರ ಗಡಿ)
15	ವಾಡ್ 15	ಮೂರ್ವಕ್ಕೆ	ಕೆ.ಹೆಚ್.ಡಿ.ಸಿ ಕೊನೆಯ ಭಾಗ ( ವಾಡ್ ನಂ 16 ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ಸರ್ಕಾರಿ ಬಾಲಕಿಯರ ಶಾಲೆಯ ಪಕ್ಕ ಇರುವ ರಸ್ತೆ (ವಾಡ್ ನಂ 11 ಮತ್ತು 14 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಹೆಚ್. ಅರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 04 ಮತ್ತು 02 ರ ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ಹಾಲು ಜನಾರ್ಥನ ಮನೆಯಿಂದ ರೈಲ್ವೆ ಸ್ವೇಷನ್ ರೋಡ್ ಲಿಂಕ್ ವರೆಗೆ ಮತ್ತು ಎಸ್.ಎಂ.ನರಸಿಂಗ್ ರಾವ್ ಮನೆಯ ಗಲ್ಲಿ ವರಗೆ (ವಾಡ್ ನಂ 12,14 ಮತ್ತು 10 ರ ಗಡಿ)
16	ವಾಡ್ 16	ಮೂರ್ವಕ್ಕೆ	ಸೃಜನಕ್ಕೆ ಹೋಗುವ ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 01 ರ ಗಡಿ)
		ಪಟ್ಟಿಮುಕ್ಕೆ	ಹಿಡುವಳಿ ಜಮೀನು (ವಾಡ್ ನಂ. 15 ಮತ್ತು 10 ರ ಗಡಿ)
		ಉತ್ತರಕ್ಕೆ	ಎಚ್. ಅರ್. ರಸ್ತೆ (ವಾಡ್ ನಂಬರ್ 01 ಗಡಿ)
		ದಕ್ಷಿಣಕ್ಕೆ	ರೈಲ್ವೆ ಹಳ್ಳಿ

ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ  
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು  
ಚಿತ್ರದುಗ್ರ ಜಿಲ್ಲೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-III

ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೨, ೨೦೧೭ (ಶ್ರಾವಣ ೫, ಶಕ ವರ್ಷ ೧೯೩೯)

ನಂ. ೪೮೪

No. 714

Part-III Bengaluru, Thursday, July 27, 2017 (Shrawana 5, Shaka Varsha 1939)

ಚೆಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ, ಚಿತ್ರದುರ್ಗ ಜಿಲ್ಲೆ, ಚಿತ್ರದುರ್ಗ

ಅಂತಿಮ ಅಧಿಸೂಚನೆ

ನಂ. ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(5)/2016.17 ದಿನಾಂಕ: 24.07.2017

ಸರ್ಕಾರದ ನಿರ್ದೇಶನ ಮತ್ತು ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಯುದ್ದಿದಿ 4 ಎಂಎಲ್‌ಆರ್ 2014 ದಿನಾಂಕ: 15/02/2014ರಲ್ಲಿನ ಮಾರ್ಗಸೂಚಿಯನ್ನಾಯ ನಗರ ಸ್ಥಳೀಯ ಸಂಸ್ಥೆಗಳಿಗೆ ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣೆ ಮಾಡಬೇಕಾಗಿರುತ್ತದೆ. ಸದರಿಯನ್ನಾಯ ಹೊಳೆಲ್ಲಿರೆ ಪಟ್ಟಣ ಪಂಚಾಯಿತ್ತಿ 16 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣೆ ಮಾಡಿ ವಾರ್ಡ್ ಮತ್ತು ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ರಚಿಸಿ ಕರಡು ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ:ಚುನಾವಣೆ.ಸಿ.ಆರ್132(5)/2016.17 ದಿನಾಂಕ:05.06.2017ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಧಿಸೂಚನೆಯನ್ನು ವಿಶೇಷ ರಾಜ್ಯ ಪತ್ರದ ಭಾಗದ III ಸಂಖ್ಯೆ 465 ದಿನಾಂಕ: 05.06.2017 ರಂದು ಪ್ರಕಟಿಸಿ ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಸಾರ್ವಜನಿಕರು ಯಾವುದೇ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆ ಸೂಚನೆಗಳಿದ್ದಲ್ಲಿ ಈ ಕರಡು ಅಧಿಸೂಚನೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 15 ದಿನದೊಳಗಾಗಿ ಲಿಖಿತವಾಗಿ ಸಲ್ಲಿಸಲು ಆವ್ಯಾಸಿಸಲಾಗಿತ್ತು. ಸದರಿ ಅಧಿಸೂಚನೆಗೆ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆ ಸ್ವೀಕೃತವಾಗಿರುವುದಿಲ್ಲ.

ಪ್ರಯುಕ್ತ ಕರ್ನಾಟಕ ಪೌರಸಭೆಗಳ ಅಧಿನಿಯಮ 1964ರ ಪ್ರಕರಣ 13 ರಂತೆ ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ, ಚೆಲ್ಲಾಧಿಕಾರಿಗಳು, ಚಿತ್ರದುರ್ಗ ಜಿಲ್ಲೆ ಆದ ನಾನು ಹೊಳೆಲ್ಲಿರೆ ಪಟ್ಟಣ ಪಂಚಾಯಿತ್ತಿ 16 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಅನುಬಂಧ ಅಂಕಣ (2)ರಲ್ಲಿ ಘೋಷಿಸಿರುವ ವಾರ್ಡ್‌ಗಳಿಗೆ ಅಂಕಣ (4)ರಲ್ಲಿ ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ಅಧಿಸೂಚನೆಯನ್ನು ಪ್ರಕಟಿಸಿರುತ್ತೇನೆ.

ಅನುಬಂಧ

ಕ್ರ.ಸಂ	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
1	ವಾರ್ಡ್ 1	ಪೂರ್ವ	ಬಳ್ಳಿಗಾರ ಬೀದಿ ಬಸಣ್ಣನ ಮನೆಯಿಂದ ಅಗಳ್ತಿ ಗುಂಡಿಯವರೆಗೆ
		ಪಶ್ಚಿಮ	ರಾಜಪ್ಪ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಮುಣಿಗರ ಬೀದಿ ಸೇರಿ ತಂಜನೇಯ ದೇವಸ್ಥಾನ ಮತ್ತು ಹಿರೆಕೆರೆ ಒಳಗೊಂಡಿರುತ್ತದೆ.
		ಉತ್ತರ	ಗಣಪತಿ ದೇವಸ್ಥಾನ ಹಾಗೂ ಹಿಡುವಳಿ ಜಮೀನುಗಳು
		ದಕ್ಷಿಣ	ತಿಂಡಿ ದೇವಸ್ಥಾನ ಒಳಗೊಂಡು ನಿವೃತ್ತಿ ಶಿಕ್ಷಕ ಕೋದಂಡರಾಮಯ್ಯ ಮನೆಯಿಂದ ಗೋಪಾಲಸ್ವಾಮಿ ದೇವಸ್ಥಾನದವರೆಗೆ

ಕ್ರ.ಸಂ	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
2	ವಾರ್ಡ್ 2	ಮೊವೆ	ಆಂಜನೇಯ ದೇವಸ್ಥಾನ ಮುಂಭಾಗದ ಪೂಜಾರಿ ಪರಮೇಶ್ವರಪ್ಪ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಬೈರೆ ದೇವರ ದೇವಸ್ಥಾನ ಹಾಗೂ ಹೊನ್ನೆಕೆರೆ ಒಳಗೊಂಡಿರುತ್ತದೆ.
		ಪಣಿಮು	ಗಾಣಿಗರ ತಿಪ್ಪೇಸ್ವಾಮಿ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಬಸ್ ಏಜೆಂಟ್ ಜಯಣಿ ಮನೆ ಹಾಗೂ ಬಸ್ ಏಜೆಂಟ್ ರಾಜಯ್ಯ ಮನೆ ಒಳಗೊಂಡು ಅಗಳ್ತವರೆಗೆ.
		ಉತ್ತರ	ಅಗಳ್ತಿ ಮತ್ತು ತೋಟಗಳು ಕಾಲಬೈರವ ದೇವಸ್ಥಾನದವರೆಗೆ.
		ದಕ್ಷಿಣ	ಗಾಣಿಗರ ತಿಪ್ಪೇಸ್ವಾಮಿ ಮನೆಯಿಂದ ಸಂಗನಗುಂಡಿ ಕೆಂಚಪ್ಪ ಮನೆವರೆಗೆ ಹಾಗೂ ಹಿಟ್ಟಿನ ಗಿರಣಿ ರುದ್ರಸ್ವಾಮಿ ಮನೆ ಒಳಗೊಂಡು ಹೊಂಡದ ಪಕ್ಷದಲ್ಲಿರುವ ಬಸವರಾಜಯ್ಯರ ಮನೆವರೆಗೆ
3	ವಾರ್ಡ್ 3	ಮೊವೆ	ವೀಭದ್ರಸ್ವಾಮಿ ದೇವಸ್ಥಾನದಿಂದ ಅಂಗಡಿ ಬಸವರಾಜಯ್ಯ ಮನೆ ಒಳಗೊಂಡು ಜಂಬಿಗೆ ಹಾಲಸಿದ್ದಪ್ಪ ಮನೆವರೆಗೆ
		ಪಣಿಮು	ಗಂಗಧರಯ್ಯ ಮನೆಯಿಂದ ಹೊನ್ನೆಮ್ಮೆ ಒಳಲಮ್ಮೆ ದೇವಸ್ಥಾನದವರೆಗೆ
		ಉತ್ತರ	ದುಕಡ್ಲೆ ಈಶ್ವರಪ್ಪನ ಮನೆಯಿಂದ ಹೊನ್ನೆಮ್ಮೆನ ದೇವಸ್ಥಾನದವರೆಗೆ
		ದಕ್ಷಿಣ	ಜಂಬಿಗೆ ಹಾಲಸಿದ್ದಪ್ಪ ಮನೆಯಿಂದ ಬಂಗಿ ಲೋಕೇಶ್ವರಪ್ಪ ಮನೆ ಒಳಗೊಂಡು ಗಂಗಾಧರಯ್ಯ ಮನೆವರೆಗೆ
4	ವಾರ್ಡ್ 4	ಮೊವೆ	ಈಡಿಗರ ಕುಬೇರಪ್ಪ ಮನೆಯಿಂದ ಈಡಿಗರ ತಿಪ್ಪೇಸ್ವಾಮಿ ಮನೆ ಒಳಗೊಂಡು ನಾಗಲಾಂಭಿಕಾ ಶಾಲೆವರೆಗೆ
		ಪಣಿಮು	ದಾವಣಗೆರೆ ಕ್ರಾಸ್ ಮತ್ತು ಕೋಡಿ ಹಳ್ಳದವರೆಗೆ
		ಉತ್ತರ	ಕುಬೇಂದ್ರಪ್ಪ ಮನೆಯಿಂದ ತಿಪ್ಪೇಸ್ವಾಮಿ ನಿವೇಶನ ಒಳಗೊಂಡು ಕೋಡಿ ಹಳ್ಳ ದಾವಣಗೆರೆ ಕ್ರಾಸ್ವರೆಗೆ
		ದಕ್ಷಿಣ	ಯಶೋದಮ್ಮೆ ಆನಂದಪ್ಪರವರ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ನಾಡಿಗರ ಗೌರಮ್ಮೆ ಮನೆಯಿಂದ ಮಹಿಂದ್ರನಾಥ್ ಮನೆ ಒಳಗೊಂಡು ಕೋಡಿಹಳ್ಳದವರೆಗೆ
5	ವಾರ್ಡ್ 5	ಮೊವೆ	ಹೆಚ್.ಎಂ ಮುರುಗೇಂದ್ರಯ್ಯ ಪೆಟ್ಲೋಲ್ ಬಂಕ್‌ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ದಾವಣಗೆರೆ ರಸ್ತೆ ಒಳಗೊಂಡು ಎಂ.ಎಂ ಪ್ರೌಡ ಶಾಲೆ ಸೇರಿ ಅವಳಿಹಟ್ಟಿ ರಸ್ತೆಯ ಅಯ್ಯನಕಟ್ಟಿವರೆಗೆ
		ಪಣಿಮು	ವಾಗ್ನೇವಿ ಶಾಲೆಯಿಂದ ಕುಕ್ಕಡೇಶ್ವರಿ ದೇವಸ್ಥಾನದವರೆಗೆ
		ಉತ್ತರ	ಕುಕ್ಕಡೇಶ್ವರ ದೇವಸ್ಥಾನದಿಂದ ಹಿಡುವಳಿ ಜಮೀನು ಒಳಗೊಂಡು ಪ್ರಭುದೇವ ಪೆಟ್ಲೋಲ್ ಬಂಕ್‌ವರೆಗೆ
		ದಕ್ಷಿಣ	ಅಯ್ಯನಕಟ್ಟಿ ಯಿಂದ ವಾಗ್ನೇವಿ ಶಾಲೆವರೆಗೆ
6	ವಾರ್ಡ್ 6	ಮೊವೆ	ಪ್ರಜಾಪಿತ ಈಶ್ವರಿ ವಿದ್ಯಾಲಯದಿಂದ ಆನಂದಪ್ಪರ ಮನೆ ಒಳಗೊಂಡು ಅವಳಿಹಟ್ಟಿ ರಸ್ತೆವರೆಗೆ
		ಪಣಿಮು	ಹಿರೆಕೆರೆ ಕೋಡಿಹಳ್ಳದಿಂದ ಅಯ್ಯನಕಟ್ಟಿವರೆಗೆ
		ಉತ್ತರ	ಪ್ರಜಾಪಿತ ಈಶ್ವರಿ ವಿದ್ಯಾಲಯದಿಂದ ಆನಂದಪ್ಪರ ಮನೆ ಒಳಗೊಂಡು ಬಸಣ್ಣನ ಮನೆ ಒಳಗೊಂಡು ಹಿರೆಕೆರೆ ಕೋಡಿ ಹಳ್ಳ ಸೇತುವೆವರೆಗೆ
		ದಕ್ಷಿಣ	ಸಿದ್ದರಾಮಪ್ಪ ಬಡಾವಣೆಯೆ 2ನೇ ಕ್ರಾಸ್ ಎದುರುಗಡೆಯ ಟಿ.ಎ.ಪಿ.ಸಿ.ಎಂ.ಎಸ್ ಸೋಸೈಟಿಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ನೋಕರರ ಭವನದವರೆಗೆ ಒಳಗೊಂಡು ಅಯ್ಯನಕಟ್ಟಿವರೆಗೆ
7	ವಾರ್ಡ್ 7	ಮೊವೆ	ಜಮೀಯಾ ಮಸಿದಿ ಮುಂಭಾಗದ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಸಿದ್ದರಾಮೇಶ್ವರ ದೇವಸ್ಥಾನ ಒಳಗೊಂಡು ಹೊಂಡದ ರಸ್ತೆವರೆಗೆ
		ಪಣಿಮು	ನೀಂದೊಲಮೀರ್ ಸಾಬ್ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಆರ್.ಟಿ.ಟಿ ನುಸ್ತಾ ಅಲೆ ಖಾನ್ ಮನೆವರೆಗೆ

ಕ್ರ.ಸಂ	ವಾಡ್‌ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
		ಉತ್ತರ	ನೀಂದ್ರಾಭಮೀರ್ ಸಾಬ್ ಮನೆಯಿಂದ ಜಾಮೀಯ ಮಸೀದಿವರೆಗೆ
		ದಕ್ಷಿಣ	ಹೊಂಡದಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಸಿದ್ದರಾಮೇಶ್ವರ ದೇವಸ್ಥಾನದವರೆಗೆ
8	ವಾಡ್‌ 8	ಮೊವೆ	ತಿಮ್ಮಪ್ಪ ಮೇಷ್ಟು ಮನೆಯಿಂದ ಬಿ.ಇ.ಒ ಆಫೀಸ್‌ವರೆಗೆ
		ಪತ್ರಿಮು	ಶಿಕ್ಕರ ಸದನದಿಂದ ಮಧ್ಯಕರಿ ಸರ್ಕಾರ್ ಒಳಗೊಂಡು ತಿಪ್ಪೇಸ್ವಾಮಿ ಮನೆವರೆಗೆ
		ಉತ್ತರ	ತಿಮ್ಮಪ್ಪ ಮೇಷ್ಟು ಮನೆಯಿಂದ ಬಿರಲಿಂಗೇಶ್ವರ ದೇವಸ್ಥಾನ ಒಳಗೊಂಡು ತಿಪ್ಪೇಸ್ವಾಮಿ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ	ಬಿ.ಇ.ಒ ಆಫೀಸ್‌ಯಿಂದ ಶಿಕ್ಕರ ಸದನದವರೆಗೆ (ಸಿ.ಬಿ.ರಸ್ತೆ)
9	ವಾಡ್‌ 9	ಮೊವೆ	ನಿಕ್ಕರ್ ತಿಮ್ಮಣಿ ಮನೆಯಿಂದ ಭಾರತ್ ಪೆಟ್ರೋಲ್ ಬಂಕ್‌ವರೆಗೆ
		ಪತ್ರಿಮು	ಕೆ.ಸಿ ರಮೇಶ್‌ರವರ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಕೌನ್ಸಿಲರ್ ಚನ್ನಕೇಶವರ್ಣ ಮನೆ ಸೇರಿಕೊಂಡು ನೀರುಳ್ಳಿ ಬಾಷಾ ಸಾಬ್ ಮನೆವರೆಗೆ
		ಉತ್ತರ	ನೀರುಳ್ಳಿ ಬಾಷಾ ಸಾಬ್ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಬಸ್ ಏಜೆಂಟ್ ಮುರೆಗ್ಗೊಂಡ ಮನೆ ಒಳಗೊಂಡು ನಿಕ್ಕರ್ ತಿಮ್ಮಣಿ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ	ಪೆಟ್ರೋಲ್ ಬಂಕ್‌ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಕೆ.ಸಿ.ರಮೇಶ್ ಮನೆಯವರೆಗೆ (ಸಿ.ಬಿ.ರಸ್ತೆ)
10	ವಾಡ್‌ 10	ಮೊವೆ	ಕೆ.ಸಿ ರಮೇಶ್ ಮನೆ ಹಿಂಭಾಗದಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಮಲ್ಲಾಡಿಹಳ್ಳಿ ಬಸ್ ಏಜೆಂಟ್ ದಸ್ತಾಗಿರಿ ಮನೆವರೆಗೆ
		ಪತ್ರಿಮು	ಗುರುಪ್ರಸಾದ್ ಹೋಟೆಲ್ ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಸಾಟಿ ರಾಜಪ್ಪ ಮನೆವರೆಗೆ
		ಉತ್ತರ	ಸಾಟಿ ರಾಜಪ್ಪ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಮೌಸಾನ್ ಸನಾವುಲ್ಲ ಮನೆ ಒಳಗೊಂಡು, ಬೀಡಾ ಅಂಗಡಿ ಅಜಾನ್ ಮನೆ ಒಳಗೊಂಡು, ಮಲ್ಲಾಡಿಹಳ್ಳಿ ಬಸ್ ಏಜೆಂಟ್ ದಸ್ತಾಗಿರಿ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ	ಗುರುಪ್ರಸಾದ್ ಹೋಟೆಲ್ ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಕೆ.ಸಿ.ರಮೇಶ್ ಮನೆ ಹಿಂಭಾಗದವರೆಗೆ
11	ವಾಡ್‌ 11	ಮೊವೆ	ರೋಟಿರಿ ರಸ್ತೆ ಮಲ್ಲಿಕಾಜುನ ಜಿತ್ ಮಂದಿರ ಮುಂಭಾಗದಿಂದ ರಾಮಪ್ಪ ಬಡಾವಣ ಒಳಗೊಂಡು, ಕೆಸರುಕಟ್ಟೆ ಕೆರೆವರೆಗೆ
		ಪತ್ರಿಮು	ಸರ್ಕಾರ್ ನಿಂದ ಮುನ್ಸಿಪಾಲ್ ಕಾಂಪ್ಲೆಕ್ಸ್ ಒಳಗೊಂಡು, ಅಕ್ಕ ಮಸೀದಿವರೆಗೆ
		ಉತ್ತರ	ಹೋಲಿಸ್ ಸ್ವೇಂನ್‌ನಿಂದ ತಾಲ್ಲೂಕು ಕಣೇರಿ ಒಳಗೊಂಡು ಸರ್ಕಾರ್‌ವರೆಗೆ (ಸಿ.ಬಿ.ರಸ್ತೆ)
		ದಕ್ಷಿಣ	ಅಕ್ಕ ಮಸೀದಿಯಿಂದ ಕೆಸರುಕಟ್ಟೆವರೆಗೆ
12	ವಾಡ್‌ 12	ಮೊವೆ	ಎಂ.ಎಲ್ ಗುರುರಾಜ ಮೆಡಿಕಲ್ ಸ್ಕ್ಯೂಲ್‌ನಿಂದ ಬಸ್‌ಸ್ವಾರ್ಡ್ ಒಳಗೊಂಡ ಹಳೆ ಭಾರತ್ ಜಿತ್ ಮಂದಿರ ಒಳಗೊಂಡು ಸ್ವೇಹ ಸಪ್ತಪದಿ ಕಲ್ಯಾಂ ಮಂಟಪದವರೆಗೆ
		ಪತ್ರಿಮು	ಪ್ರವಾಸಿ ಮಂದಿರದಿಂದ ಹೋಟೆಲ್ ಆವರಣ ಒಳಗೊಂಡು ಎಂ.ಡಿ.ಜಡ್ ಕಾಂಪ್ಲೆಕ್ಸ್‌ನಿಂದ ಜಮದಗ್ಗೆ ಬಡಾವಣವರೆಗೆ
		ಉತ್ತರ	ಪ್ರವಾಸಿ ಮಂದಿರದಿಂದ ಬಿ.ಎಸ್.ಎನ್.ಎಲ್ ಆಫೀಸ್ ಒಳಗೊಂಡು ಎಂ.ಎಲ್.ಗುರುರಾಜ್ ಮೆಡಿಕಲ್‌ವರೆಗೆ
		ದಕ್ಷಿಣ	ಗುಂಡೇರಿ ಕಾವಲ್ ರಸ್ತೆಯಿಂದ ಅಯ್ಯಪ್ಪ ಸ್ವಾಮಿ ದೇವಸ್ಥಾನ ಒಳಗೊಂಡು ಸ್ವೇಹ ಸಪ್ತಪದಿ ಕಲ್ಯಾಂ ಮಂಟಪದವರೆಗೆ
13	ವಾಡ್‌ 13	ಮೊವೆ	ಸಿದ್ದರಾಮಪ್ಪ ಬಡಾವಣ 3ನೇ ಕ್ರಾಸ್‌ನ ಜ್ಯೇನ್ ಬಸದಿ ಖಾಲಿ ಜಾಗ ಸೇರಿಕೊಂಡು ಆಯಿ ಮಾತಾಜಿ ದೇವಸ್ಥಾನದವರೆಗೆ
		ಪತ್ರಿಮು	ನಂಜುಂಡ ಶಾಸ್ತ್ರ ಹೋಟದಿಂದ ಅಯ್ಯನಕಟ್ಟೆವರೆಗೆ

ಕ್ರ.ಸಂ	ವಾದ್ಯ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಪ್ಪು ಬಂದಿ
		ಉತ್ತರ	ಸಿದ್ದರಾಮಪ್ಪ ಬಡಾವಣೆ 3ನೇ ಕ್ರಾಸ್ ಪ್ರಾರಂಭವಾಗಿ ಭೂತಲಿಂಗೇಶ್ವರ ದೇವಸ್ಥಾನ ಸೇರಿಕೊಂಡು ಗೌಡ್ಯ ಗಂಗಾಧರಪ್ಪ ಬಡಾವಣೆ ಸೇರಿ ನಂಜುಂಡ ಶಾಸ್ತ್ರ ತೋಟವರೆಗೆ
		ದಕ್ಷಿಣ	ಆಯಿ ಮಾತಾಜಿ ದೇವಸ್ಥಾನದಿಂದ ಅವಳಿಹಟ್ಟಿ ರಸ್ತೆವರೆಗೆ
14	ವಾದ್ಯ 14	ಮೋವ್	ಕೆ.ಹೆಚ್.ಬಿ.ಕಾಲೋನಿಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಕಂಟ್ರಾಕ್ಟರ್ ಶಿವಮೂರ್ತಿ ಮನೆವರೆಗೆ
		ಪಶ್ಚಿಮ	ಕಾವಲ್ ಮಹದೇವಪ್ಪ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ರಾಮ ಮಂದಿರ ದೇವಸ್ಥಾನ ಒಳಗೊಂಡು ಶಫಿಪುಲ್ ಮಾಸ್ರ್ ಮನೆವರೆಗೆ
		ಉತ್ತರ	ಎ.ಬಿ. ಗೋಪಾಲ ಶಟ್ಟಿ ಮನೆ ಪ್ರಾರಂಭವಾಗಿ ಗುರುರಾಜ್ ಪ್ರೇಸ್ ಸೇರಿಕೊಂಡು ಪಶು ಆಸ್ಟ್ರೇವರೆಗೆ
		ದಕ್ಷಿಣ	ರಾಮ ಮಂದಿರ ರಸ್ತೆಯ ನಿವೃತ್ತಿ ಶಿಕ್ಷಕ ಶಫಿಲಾಲ್ಲು ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಏಜೆಂಟ್ ರಾಮಣನವರ ಮನೆ ಒಳಗೊಂಡು ಕಾಮದೇನು ಲಾರಿ ಮಾಲೀಕರ ಮನೆವರೆಗೆ
15	ವಾದ್ಯ 15	ಮೋವ್	ಜಡ್ಗಾಡಿ ಹನುಮಂತಪ್ಪ ಮನೆ ಒಳಗೊಂಡು ಪೇಂಟ್ ಶೇಖರ್ ಮನೆವರೆಗೆ
		ಪಶ್ಚಿಮ	ಗೋಡನ್ ಹಾಗೂ ಮಲ್ಲಿಕಾಜುನ ಚಿತ್ರಮಂದಿರ ಪ್ರಾರಂಭವಾಗಿ ರಹಮಾನಿಯ ಮಸೀದಿವರೆಗೆ
		ಉತ್ತರ	ನಿವೃತ್ತ ಶಿಕ್ಷಕ ಶಫಿಪುಲರವರ ಮಗನ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಜಬ್ರೂ ಸಾಬ್ ಮನೆ ಒಳಗೊಂಡು ಜಡ್ಗಾಡಿ ಹನುಮಂತಪ್ಪ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ	ರಹಮಾನಿಯ ಮಸೀದಿಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಕರೆಕಲ್ಲು ದಿಬ್ಬ ಎ.ಡಿ ಕಾಲೋನಿ ಸೇರಿಕೊಂಡು ಪೇಂಟ್ ಶೇಖರ್ ಮನೆವರೆಗೆ
16	ವಾದ್ಯ 16	ಮೋವ್	ಬಸ್ ಏಜೆಂಟ್ ವಾಜೀದ್ ಸಾಬ್ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಲೋಕೇಶನ್ ಬಡಾವಣೆ ಒಳಗೊಂಡು ಮುಸಾರೀ ಬಡಾವಣೆವರೆಗೆ
		ಪಶ್ಚಿಮ	ವಿಶ್ವನಾಥ್ ಶೆಟ್ಟಿ ಅಂಗಡಿಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ದಾಸಿಕಟ್ಟಿ ಹನುಮಂತಪ್ಪ ಮನೆ ಒಳಗೊಂಡು ಹಳೇ ಪಂಪ್ ಹೌಸ್ ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಏಜೆಂಟ್ ವಾಜೀದ್ ಸಾಬ್ ಮನೆವರೆಗೆ
		ಉತ್ತರ	ದಾಸಿಕಟ್ಟಿ ಹನುಮಂತಪ್ಪರ ಮನೆಯಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಏಜೆಂಟ್ ವಾಜೀದ್ ಸಾಬ್ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ	ಹಳೇ ಪಂಪ್ ಹೌಸ್ ನಿಂದ ಪ್ರಾರಂಭವಾಗಿ ಮುಸಾರೀ ಬಡಾವಣೆವರೆಗೆ

ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ  
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು  
ಚಿತ್ರದುರ್ಗ ಜಿಲ್ಲೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-III Part-III	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೭, ೨೦೧೭ (ಶ್ರಾವಣ ೫, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 27, 2017 (Shrawana 5, Shaka Varsha 1939)	ನಂ. ೪೫ No. 715
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ಚಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಾರ್ಯಾಲಯ, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ, ಚಿತ್ರದುರ್ಗ

ಅಂತಿಮ ಅಧಿಸೂಚನೆ

ನಂ. ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(4)/2016.17 ದಿನಾಂಕ: 24.07.2017

ಸರ್ಕಾರದ ನಿರ್ದೇಶನ ಮತ್ತು ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಯುದ್ದಿಡಿ 4 ಎಂಎಲೋಆರ್ 2014 ದಿನಾಂಕ: 15/02/2014ರಲ್ಲಿನ ಮಾರ್ಗಸೂಚಿಯನ್ನು ನಗರ ಸ್ಥಳೀಯ ಸಂಸ್ಥೆಗಳಿಗೆ ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣೆ ಮಾಡಬೇಕಾಗಿರುತ್ತದೆ. ಸದರಿಯನ್ನು ಹೊಸದುರ್ಗ ಮರಸಬೆ 23 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಕ್ಷೇತ್ರ ಮನರ್ ವಿಂಗಡಣೆ ಮಾಡಿ ವಾರ್ಡ್ ಮತ್ತು ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ರಚಿಸಿ ಕರಡು ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ:ಚುನಾವಣೆ.ಸಿ.ಆರ್.132(4)/2016.17 ದಿನಾಂಕ: 05.06.2017ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಧಿಸೂಚನೆಯನ್ನು ವಶೇಷ ರಾಜ್ಯ ಪತ್ರದ ಭಾಗದ III ಸಂಖ್ಯೆ 466 ದಿನಾಂಕ: 05.06.2017 ರಂದು ಪ್ರಕಟಿಸಿ ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಸಾರ್ವಜನಿಕರು ಯಾವುದೇ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆ ಸೂಚನೆಗಳಿದ್ದಲ್ಲಿ ಈ ಕರಡು ಅಧಿಸೂಚನೆ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ 15 ದಿನದೊಳಗಾಗಿ ಲಿಖಿತವಾಗಿ ಸಲ್ಲಿಸಲು ಆಹ್ವಾನಿಸಲಾಗಿತ್ತು. ಸದರಿ ಅಧಿಸೂಚನೆಗೆ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆ ಸೂಚನೆಗೆ ಸ್ವೀಕೃತವಾಗಿರುವುದಿಲ್ಲ.

ಪ್ರಯುಕ್ತ ಕರ್ನಾಟಕ ಪೌರಸಭೆಗಳ ಅಧಿನಿಯಮು 1964ರ ಪ್ರಕರಣ 13 ರಂತೆ ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ, ಚಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಚಿತ್ರದುರ್ಗ ಚಿಲ್ಲೆ ಆದ ನಾನು ಹೊಸದುರ್ಗ ಮರಸಬೆ 23 ವಾರ್ಡ್‌ಗಳನ್ನು ನಿಗದಿಪಡಿಸಿ, ಅನುಬಂಧ ಅಂಕಣ (2)ರಲ್ಲಿ ಘೋಷಿಸಿರುವ ವಾರ್ಡ್‌ಗಳಿಗೆ ಅಂಕಣ (4)ರಲ್ಲಿ ವಾರ್ಡ್‌ನ ವ್ಯಾಪ್ತಿಯನ್ನು ನಿಗದಿಪಡಿಸಿ ಅಧಿಸೂಚನೆಯನ್ನು ಪ್ರಕಟಿಸಿರುತ್ತೇನೆ.

## ಅನುಬಂಧ

ಕ್ರ. ಸಂ.	ವಾರ್ಡ್ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕುಗಳು	ಚಕ್ಕು ಬಂದಿ
1	ವಾರ್ಡ್ 1	ಪೂರ್ವ:	ಮನಿವಿಧಾನಸೌಧ ವೃತ್ತದಿಂದ ಹೊಳೆರ್ಕೆರೆ ರಸ್ತೆ ಮಾರ್ಗದಲ್ಲಿ ನ್ಯಾಯಾಲಯದ ಕಟ್ಟಡದವರೆಗೆ ಹೋಗಿ ಉತ್ತರಕ್ಕೆ ತಿರುಗಿ ನ್ಯಾಯಾಲಯದ ಪಶ್ಚಿಮದ ರಸ್ತೆ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ
		ಪಶ್ಚಿಮ:	ತರೀಕೆರೆ ರಸ್ತೆಯಿಂದ ಸಿದ್ದರಾಮ ಸಮುದಾಯ ಭವನ ಹೊಳೆರ್ಕೆರೆ ರಸ್ತೆ ಪರಿವೀಕ್ಷಣಾ ಮಂದಿರ ಮೂಲಕ ಕೃಷಿ ಕಳ್ಳೆರಿವರೆಗೆ ಮರಸಬೆ ಗಡಿ
		ಉತ್ತರ:	ಗೂರುವಿನಕಲ್ಲು ಗುಡ್ಡ
		ದಕ್ಷಿಣ:	ಮನಿವಿಧಾನಸೌಧದಿಂದ ಮರಸಬೆ ಗಡಿವರೆಗೆ ಹೊಸದುರ್ಗ – ತರೀಕೆರೆ ರಸ್ತೆ
2	ವಾರ್ಡ್ 2	ಪೂರ್ವ:	ಲೋಕೋಪಯೋಗಿ ವಸತಿ ಗೃಹದಿಂದ ಸದ್ಗುರು ಸೇವಾಶ್ರಮದವರೆಗೆ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಮನಿವಿಧಾನಸೌಧ ವೃತ್ತದಿಂದ ಹೊಳೆರ್ಕೆರೆ ರಸ್ತೆ, ಮಾರ್ಗದಲ್ಲಿ ನ್ಯಾಯಾಲಯದ ಕಟ್ಟಡದವರೆಗೆ ಹೋಗಿ, ಉತ್ತರಕ್ಕೆ ತಿರುಗಿ, ನ್ಯಾಯಾಲಯದ ಪಶ್ಚಿಮದ ರಸ್ತೆ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕಾಗಳು	ಚಪ್ಪು ಬಂದಿ
		ಉತ್ತರ:	ಗೊರವಿನಕಲ್ಲು ಗುಡ್ಡ
		ದಕ್ಷಿಣ:	ಲೋಕೋಪಯೋಗಿ ವಸತಿ ಗೃಹದಿಂದ ನ್ಯಾಯಾಲಯ ಕಟ್ಟಡದವರೆಗೆ ಹೊಸದುಗ್ರ - ಹೊಳಳ್ಳೆರೆ ರಸ್ತೆ
3	ವಾದ್ಯ 3	ಮೂರ್ವಾ:	ಕನಕ ಬ್ಯಾಂಕ್ ನಿಂದ ಗುಡ್ಡದವರೆಗೆ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಲೋಕೋಪಯೋಗಿ ವಸತಿ ಗೃಹದಿಂದ ಶದ್ರು ಸೇವಾಶ್ರಮದವರೆಗೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಗೊರವಿನಕಲ್ಲು ಗುಡ್ಡ
		ದಕ್ಷಿಣ:	ಕನಕ ಬ್ಯಾಂಕ್ ನಿಂದ ಸಾಮಧ್ಯಸೌಧದವರೆಗೆ ಹೊಸದುಗ್ರ - ಹೊಳಳ್ಳೆರೆ ರಸ್ತೆ
4	ವಾದ್ಯ 4	ಮೂರ್ವಾ:	ಒಪ್ಪಿನಮತದ ಅರಳೀಕಟ್ಟೆಯಿಂದ ಸುಗಂಧಭಾಯಿ ಮನೆ ಮೂಲಕ, ಎಸ್.ಜಿ.ಎಂ. ಕಾಲೇಜು ಮೂರ್ವದ ರಸ್ತೆ ಮೂಲಕ, ನಂಜಯ್ಯನಕೆರೆ ರಸ್ತೆ.
		ಪಶ್ಚಿಮ:	ಕನಕ ಬ್ಯಾಂಕ್ ನಿಂದ ಗುಡ್ಡದವರೆಗೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಗೊರವಿನಕಲ್ಲು ಗುಡ್ಡ
		ದಕ್ಷಿಣ:	ಒಪ್ಪಿನ ಮತದ ಅರಳೀಕಟ್ಟೆಯಿಂದ ಬನಶಂಕರಿ ಬ್ಯಾಂಕ್ ವರೆಗೆ ಮುಖ್ಯರಸ್ತೆ
5	ವಾದ್ಯ 5	ಮೂರ್ವಾ:	ಭುವನೇಶ್ವರಿ ವೃತ್ತದಿಂದ ಹೊಸದುಗ್ರ ಹಿರಿಯಾರು ಮುಖ್ಯರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಒಪ್ಪಿನಮತದ ಅರಳೀಕಟ್ಟೆಯಿಂದ, ಸುಗಂಧಭಾಯಿ ಮನೆ ಮೂಲಕ, ಎಸ್.ಜಿ.ಎಂ. ಕಾಲೇಜು ಮೂರ್ವದ ರಸ್ತೆ ಮೂಲಕ, ನಂಜಯ್ಯನಕೆರೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಗೊರವಿನಕಲ್ಲು ಜೋಡಿಶ್ರೀರಾಂಪುರ ಗುಡ್ಡ
		ದಕ್ಷಿಣ:	ಭುವನೇಶ್ವರಿ ವೃತ್ತದಿಂದ ಶಾರದಾ ಪಾಬ್ಲಿಕ್ ವರೆಗೆ ಮುಖ್ಯರಸ್ತೆ
6	ವಾದ್ಯ 6	ಮೂರ್ವಾ:	ಜಲೀಲ್ ಸಾರ್ ಹಿಟ್ಟಿನಗಿರಣೆಯಿಂದ ಕೃಷ್ಣಮೂರ್ತಿ, ಡಿ.ಬಿ.ಚಂದ್ರಪ್ಪ, ಕಣವೆರಂಗಪ್ಪ, ಬ್ಯಾಂಕ್ ದುರುಗಪ್ಪನವರ ಮನೆಗಳ ಮೂಲಕ, ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ. ಡಿಮೋವರೆಗೆ
		ಪಶ್ಚಿಮ:	ಭುವನೇಶ್ವರಿ ವೃತ್ತದಿಂದ ಹೊಸದುಗ್ರ ಹಿರಿಯಾರು ಮುಖ್ಯರಸ್ತೆ
		ಉತ್ತರ:	ಹೊಸದುಗ್ರ - ಹಿರಿಯಾರು ಮುಖ್ಯರಸ್ತೆ (ಹೈವೆ)
		ದಕ್ಷಿಣ:	ಭುವನೇಶ್ವರಿ ವೃತ್ತದಿಂದ ಜಲೀಲ್ ಸಾರ್ ಹಿಟ್ಟಿನಗಿರಣೆಯವರೆಗೆ
7	ವಾದ್ಯ 7	ಮೂರ್ವಾ:	ತುಳಸಿ ರವಿ ಮನೆಯಿಂದ, ಕೆ.ಎಸ್. ಕಲ್ಕಾ ಮನೆ ಮೂಲಕ, ಮತದ ತೋಟದವರೆಗೆ ಹೊನ್ನಮ್ಮೆ ಬಡಾವಣೆ ರಸ್ತೆ.
		ಪಶ್ಚಿಮ:	ಬನಶಂಕರಿ ದೇವರ ಮಳಗೆಯಿಂದ, ಪರಮೇಶಪ್ಪನ ಮನೆ ಮಂಡಕ್ಕಿ ಯೂಸೌಫ್ ಮನೆ ಮೂಲಕ ಸಾರ್ ಜಾನ್ ಸಾರ್ ಮನೆವರಗೆ
		ಉತ್ತರ:	ಮತದ ತೋಟದಿಂದ ಹೊನ್ನಮ್ಮೆ ಬಡಾವಣೆ ಹಿಂದಿನ ಕೋಡಿಹಳ್ಳೆ
		ದಕ್ಷಿಣ:	ಬನಶಂಕರಿ ದೇವರ ಮಳಗೆಯಿಂದ ತುಳಸಿ ರವಿ ಮನೆವರಗೆ ಹೆಚ್.ಹೆಚ್. ರಸ್ತೆ
8	ವಾದ್ಯ 8	ಮೂರ್ವಾ:	ಎ.ಪಿ.ಎಂ.ಸಿ. ಮೂರ್ವದಿಂದ ಗೊರವಿನಕಲ್ ಮೂಲಕ ಬಜ್ಜಪನಹಟ್ಟಿ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ತುಳಸಿ ರವಿ ಮನೆಯಿಂದ ಕೆ.ಎಸ್. ಕಲ್ಕಾ ಮನೆ ಮೂಲಕ ಮತದ ತೋಟದವರೆಗೆ ಹೊನ್ನಮ್ಮೆ ಬಡಾವಣೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಹೊಸದುಗ್ರ ಗೊರವಿನಕಲ್ಲು ಕೋಡಿಹಳ್ಳೆ
		ದಕ್ಷಿಣ:	ಎ.ಪಿ.ಎಂ.ಸಿ. ಆಗ್ನೇಯದಿಂದ ಹಳೇ ಜೀತನ ಆಯಿಲ್ ಮಿಲ್ ರಸ್ತೆವರೆಗೆ ಹೊಸದುಗ್ರ - ಹುಳಿಯಾರು ಮುಖ್ಯರಸ್ತೆ
9	ವಾದ್ಯ 9	ಮೂರ್ವಾ:	ತಾಲ್ಲೂಕು ಪಂಚಾಯಿತಿ ವಾಯುವ್ಯ ವಸತಿಗೃಹದ ಮೂಲಕ ಮೂರ್ವಕ್ಕೆ ತಿರುಗಿ ಡಿಶ್ ಬಾಬು ಮನೆ ಮುಂಭಾಗದಿಂದ ಬೋಕಿಕೆರೆ ಗುಡ್ಡರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಕೆ.ಎಂ.ಕೆ. ಲೇಟೆಟ್ ನಿಂದ ತರೀಕೆರೆ ರಸ್ತೆವರೆಗೆ ಹೊಸದುಗ್ರ ಟೊನ್ ಗಡಿ
		ಉತ್ತರ:	ಹೊಸದುಗ್ರ - ತರೀಕೆರೆ ರಸ್ತೆ
		ದಕ್ಷಿಣ:	ಬೋಕಿಕೆರೆ ಗುಡ್ಡ
10	ವಾದ್ಯ 10	ಮೂರ್ವಾ:	ಬೆಲಗೂರು ಅಶ್ವತ್ಥಶೇಟ್ಟಿ ಮಳಗೆ ಮತ್ತು ಅರಲಹಳ್ಳಿ ಬಿಲ್ಡಿಂಗ್ ಮಾರ್ಗವಾಗಿ ತೋಭರಾಣಿ ಮನೆ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಷುಗಳು	ಚಪ್ಪು ಬಂದಿ
		ಪಚ್ಚಿಮು:	ತಾಲ್ಲೂಕು ಪಂಚಾಯಿತಿ ವಾಯುವ್ಯ ವಸತಿಗ್ರಹದ ಮೂಲಕ ಮೂರ್ವಣಕ್ಕೆ ತಿರುಗಿ ಇಶ್ರಾ ಬಾಬು ಮನೆ ಮುಂಭಾಗದಿಂದ ಬೋಂಕೆರೆ ಗುಡ್ಡರಸ್ತೆ
		ಉತ್ತರ:	ಬೆಲಗೂರು ಅಶ್ವತ್ಥಶೆಟ್ಟಿ ಮಳಿಗೆ ಯಿಂದ ತಾಲ್ಲೂಕು ಪಂಚಾಯಿತಿ ವಾಯುವ್ಯದವರೆಗೆ ಹೊಸದುಗ್ರ - ತರೀಕೆರೆ ರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಹೊಸದುಗ್ರದ ಗುಡ್ಡ
11	ವಾದ್ಯ 11	ಮೂರ್ವಣ:	ಅನಿತಾ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್‌ನಿಂದ ಓ.ಹೆಚ್. ಬಸವರಾಜ್ ಮನೆಮೂಲಕ ಮೊ.ಬಿ.ನಾರಾಯಣಪ್ಪನ ಮನೆವರೆಗೆ ವಿನಾಯಕ ಬಡಾವಣೆ ರಸ್ತೆ
		ಪಚ್ಚಿಮು:	ಬೆಲಗೂರು ಅಶ್ವತ್ಥಶೆಟ್ಟಿ ಮಳಿಗೆ ಮತ್ತು ಅರಲಹಳ್ಳಿ ಬಿಲ್ಡಿಂಗ್ ಮಾರ್ಗವಾಗಿ ಶೋಭರಾಣಿ ಮನೆ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ
		ಉತ್ತರ:	ಅನಿತಾ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್‌ನಿಂದ ಕನಾಟಕ ಬ್ಯಾಂಕ್‌ವರೆಗೆ ಮುಖ್ಯರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಹೊಸದುಗ್ರ ಗುಡ್ಡ
12	ವಾದ್ಯ 12	ಮೂರ್ವಣ:	ಭುವನೇಶ್ವರ ವೃತ್ತದಿಂದ ಮದಕರಿ ವೃತ್ತದವರೆಗೆ ಹೆಚ್.ಹೆಚ್.ರಸ್ತೆ
		ಪಚ್ಚಿಮು:	ಪ್ಯಾರೆಜನ್‌ ಕಿರಾಣಿ ಅಂಗಡಿ ಮುನ್ಸಿಪಲ್ ಕಾಂಪ್ಲೆಕ್ಸ್‌ನಿಂದ ಮೋಲೀಸ್ ಸ್ವೇಷನ್ ಮೂಲಕ ಪಟ್ಟಣ ಪಂಚಾಯಿತಿ ನೈರ್ಮತ್ಯದವರೆಗೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಪ್ಯಾರೆಜನ್‌ ಕಿರಾಣಿ ಅಂಗಡಿ ಮುನ್ಸಿಪಲ್ ಕಾಂಪ್ಲೆಕ್ಸ್‌ನಿಂದ ಭುವನೇಶ್ವರ ವೃತ್ತದವರೆಗೆ ಹೆಚ್.ಹೆಚ್.ರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಮುನ್ಸಿಪಲ್ ಅಫೀಸ್ ಸ್ನೇರುತ್ಯದಿಂದ ವಿದ್ಯಾಪತಿ ಶಿವಣಿ ಹಿಟ್ಟಿನಿಗಿರಿ ರಾಜಣ್ಣ ಗುರುಪಾದಪ್ಪರ ರುದ್ರಪ್ಪ ಬಿ. ಬಂದಯ್ಯನ ಮನೆ ಮೂಲಕ ಮದಕರಿ ವೃತ್ತ.
13	ವಾದ್ಯ 13	ಮೂರ್ವಣ:	ಎ.ಕೆ. ಕಾಲೋನಿ ಟ್ರೌಂಕ್‌ನಿಂದ ಮದಕರಿ ವೃತ್ತ
		ಪಚ್ಚಿಮು:	ಹಾಲಿನ ಶಿವಲಿಂಗಪ್ಪನ ಮನೆಯಿಂದ ಡಿ.ಟಿ. ರಾಮಚಂದ್ರಪ್ಪನ ಹಿಟ್ಟಿನ ಗಿರಣೆವರೆಗೆ, ಈಶ್ವರ ದೇವಸ್ಥಾನದ ರಸ್ತೆ
		ಉತ್ತರ:	ಡಿ.ಟಿ. ರಾಮಚಂದ್ರಪ್ಪನ ಹಿಟ್ಟಿನ ಗಿರಣೆಯಿಂದ ಆರ್.ಎಂ.ಸಿ. ರಾಮಣನ ಮನೆವರೆಗೆ ಚಾಮರಾಜಪೇಟೆ ರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಹಾಲಿನ ಶಿವಲಿಂಗಪ್ಪನ ಮನೆಯಿಂದ ಮಸೀದಿ ದಕ್ಷಿಣದ ರಸ್ತೆ, ಖಾಜಿ ಮೊಹಲ್ಲ್ ಓಣಿ ಮೂಲಕ ಎ.ಕೆ. ಹಟ್ಟಿ, ಟ್ರೌಂಕ್‌ವರೆಗೆ
14	ವಾದ್ಯ 14	ಮೂರ್ವಣ:	ಮುಖ್ಯರಸ್ತೆಯಿಂದ ಗುಡ್ಡದವರೆಗೆ ಆಜಾದ್ ಬೀಡಾಸ್ಪಾಲ್ ರಸ್ತೆ
		ಪಚ್ಚಿಮು:	ಮಂಡಿ ರಿಜ್ಞಾನ್ ಮನೆಯಿಂದ ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡದವರೆಗೆ
		ಉತ್ತರ:	ಮದಕರಿ ಸರ್ಕಾರಿ ನಿಂದ ಆಜಾದ್ ಬೀಡಾಸ್ಪಾಲ್‌ವರೆಗೆ ಮುಖ್ಯರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡ
15	ವಾದ್ಯ 15	ಮೂರ್ವಣ:	ಬನಶಂಕರಿ ಕಲ್ಯಾಣ ಮಂಟಪದ ಮೂರ್ವಣದಿಂದ ರೈಜಿಂಗ್ ಮೈನ್ ಪ್ರೈಸ್‌ಲೈನ್ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ
		ಪಚ್ಚಿಮು:	ಮುಖ್ಯರಸ್ತೆಯಿಂದ ಗುಡ್ಡದವರೆಗೆ ಆಜಾದ್ ಬೀಡಾಸ್ಪಾಲ್ ರಸ್ತೆ
		ಉತ್ತರ:	ಬನಶಂಕರಿ ಕಲ್ಯಾಣ ಮಂಟಪದಿಂದ ಆಜಾದ್ ಬೀಡಾಸ್ಪಾಲ್‌ವರೆಗೆ ಮುಖ್ಯರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡ
16	ವಾದ್ಯ 16	ಮೂರ್ವಣ:	ಕೆ.ವಿ. ಸಾಮ್ಮಿ ಮಳಿಗೆಯಿಂದ ಅಂಗಡಿ ಪ್ರಭು ಗಾರೇನಾಗಣ್ಣನ ಮನೆಮೂಲಕ ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡ
		ಪಚ್ಚಿಮು:	ಬನಶಂಕರಿ ಕಲ್ಯಾಣ ಮಂಟಪದ ಮೂರ್ವಣದಿಂದ ರೈಜಿಂಗ್ ಮೈನ್ ಪ್ರೈಸ್‌ಲೈನ್ ಮೂಲಕ ಗುಡ್ಡದವರೆಗೆ
		ಉತ್ತರ:	ಕೆ.ವಿ. ಸಾಮ್ಮಿ ಮಳಿಗೆಯಿಂದ ಬನಶಂಕರಿ ಕಲ್ಯಾಣ ಮಂಟಪದವರೆಗೆ ಹಳಿಯಾರು ರಸ್ತೆ
		ದಕ್ಷಿಣಾ:	ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡ
17	ವಾದ್ಯ 17	ಮೂರ್ವಣ:	ಕೆ.ಹೆಚ್.ಬಿ. ಕಾಲೋನಿಯಿಂದ ಮುಖ್ಯರಸ್ತೆ ಮೂಲಕ ಪುರಸಬೆ ಗಡಿ
		ಪಚ್ಚಿಮು:	ಕೆ.ವಿ. ಸಾಮ್ಮಿ ಮಳಿಗೆಯಿಂದ ಅಂಗಡಿ ಪ್ರಭು ಗಾರೇನಾಗಣ್ಣನ ಮನೆಮೂಲಕ ಭ್ಯಾರಪ್ಪನ ಗುಡ್ಡ

ಕ್ರ. ಸಂ.	ವಾದ್ಯ ಸಂಖ್ಯೆ ಮತ್ತು ಹೆಸರು	ದಿಕ್ಕಾಗಳು	ಚಪ್ಪು ಬಂದಿ
		ಉತ್ತರ:	ಎ.ಪಿ.ಎಂ.ಸಿ. ಕಟ್ಟಡದಿಂದ ಗೊರವಿಕಲ್ಲು - ಕಪ್ಪಗೆರೆ ರಸ್ತೆವರೆಗೆ
		ದಕ್ಷಿಣ:	ಭೃತ್ಯಪ್ಪನ ಗುಡ್ಡ, ಕುಮಾರನ ಕೋವೆ ಪುರಸಚೆ ಗಡಿ
18	ವಾದ್ಯ 18	ಮೂರ್ವಾ:	ತೇರಿನ ಮನೆಯಿಂದ ಬಂಗಾರಗಿರಿ ನಿಂಗಪ್ಪನ ಜವಾನ್ ಜಲಾಲ್ ಸಾಬ್ ಮನೆ ಮೂಲಕ, ಹಳೆ ಟ್ಯಾಂಕ್ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಡಾಕ್ಟರ್ ವರದರಾಜ್ ಮನೆಯಿಂದ ಬೋವಿ ಕಾಲೋನಿ ಹಳೆಟ್ಯಾಂಕ್ ಗುಡ್ಡದವರೆಗೆ ವಿನಾಯಕ ಬಡಾವಹೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಡಾಕ್ಟರ್ ವರದರಾಜ್ ಮನೆಯಿಂದ ದುರ್ಗಮ್ಮನ ಗುಡಿ ಮೂಲಕ ತೇರಿನ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ:	ಬೋವಿ ಕಾಲೋನಿ ಹಿಂಭಾಗದ ಗುಡ್ಡ
19	ವಾದ್ಯ 19	ಮೂರ್ವಾ:	ಮುದ್ರೆಕಲ್ ದೇವಸ್ಥಾನದ ಮನೆಯಿಂದ ಹಳೆರ್ಮೆಸಿಂಗ್ ಮೈಯಿನ್‌ಪ್ರೇಪ್‌ಲೈನ್ ಹೊಸಳ್ಳಿದೊಡ್ಡಯ್ಯನ ಮನೆವರೆಗೆ
		ಪಶ್ಚಿಮ:	ಉಪ್ಪಾರ ಕಾಳಪ್ಪನ ಮನೆಯಿಂದ ಕುಂಬಾರ ನಾಗರಾಜಪ್ಪನ ಮನೆ ಮೂಲಕ ಹಳೆಟ್ಯಾಂಕ್ ರಸ್ತೆ
		ಉತ್ತರ:	ಉಪ್ಪಾರ ಕಾಳಪ್ಪನ ಮನೆಯಿಂದ ಮುದ್ರೆಕಲ್‌ವರೆಗೆ ತೇರುಬಿಂದಿ
		ದಕ್ಷಿಣ:	ಹಳೆ ರ್ಮೆಸಿಂಗ್ ಮೈಯಿನ್ ಪ್ರೇಪ್‌ಲೈನ್
20	ವಾದ್ಯ 20	ಮೂರ್ವಾ:	ವೀರಾಂಜನೇಯ ದೇವಸ್ಥಾನದ ಶಂಕಾನ್ಯದಿಂದ ಭೂತಪ್ಪನ ಗುಡಿ ಮೂಲಕ ಕೋಟಿ ದೊಡ್ಡಯ್ಯನ ವೃತ್ತ
		ಪಶ್ಚಿಮ:	ಮುದ್ರೆಕಲ್ ಉಪ್ಪಾರ ಎಂ. ನಿಂಗಪ್ಪನ ಮನೆಯಿಂದ ಹಳೆ ರ್ಮೆಸಿಂಗ್ ಮೈಯಿನ್‌ಪ್ರೇಪ್ ಲೈನ್‌ವರೆಗೆ
		ಉತ್ತರ:	ಮುದ್ರೆಕಲ್‌ನಿಂದ ವೀರಾಂಜನೇಯ ದೇವಸ್ಥಾನದ ಶಂಕಾನ್ಯದವರೆಗೆ ತೇರುಬಿಂದಿ ಮತ್ತು ಮಸೀದಿ ದಕ್ಷಿಣದ ಬೀದಿ
		ದಕ್ಷಿಣ:	ಬಿ.ಎಸ್. ಶ್ರೀನಿವಾಸಯ್ಯರ ಮನೆಯಿಂದ ಮೀನಿನ ತಿಮ್ಮಣಿನ ಮನೆವರೆಗೆ
21	ವಾದ್ಯ 21	ಮೂರ್ವಾ:	ಎ.ಕೆ. ಕಾಲೋನಿ ದೇವಸ್ಥಾನದ ಹಿಂಭಾಗದ ರಸ್ತೆಯಿಂದ ಭೃತ್ಯಪ್ಪನ ಗುಡ್ಡದ ಮರಕಟ್ಟೆವರೆಗೆ
		ಪಶ್ಚಿಮ:	ವೀರಾಜನೇಯಸ್ಥಾಮಿ ದೇವಸ್ಥಾನ ಶಂಕಾನ್ಯದಿಂದ ಬನಶಂಕರಿ ರಸ್ತೆ, ಮರಕಟ್ಟೆ
		ಉತ್ತರ:	ಶಾಜಿ ಮೊಹಲ್ಲೆ ಓಟೆ
		ದಕ್ಷಿಣ:	ಮರಕಟ್ಟೆ
22	ವಾದ್ಯ 22	ಮೂರ್ವಾ:	ಹೆಚ್.ಜಿ. ಹನುಮಂತಪ್ಪನ ಮನೆಯಿಂದ ಗವಿರಂಗನಾಥ ಶಾಲೆ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಹಳೆಟ್ಯಾಂಕ್ ಗುಡ್ಡ
		ಉತ್ತರ:	ಜಿ. ಹನುಮಂತಪ್ಪನ ಮನೆಯಿಂದ ಗಾಡಿ ಚಿಕ್ಕಣಿನ ಮನೆವರೆಗೆ
		ದಕ್ಷಿಣ:	ಹುಣಸೆ ಹೊಂಡದ ಗುಡ್ಡ
23	ವಾದ್ಯ 23	ಮೂರ್ವಾ:	ಬನಶಂಕರಿ ದೇವಸ್ಥಾನದಿಂದ ಮರಕಟ್ಟೆ ರಸ್ತೆ
		ಪಶ್ಚಿಮ:	ಗವಿರಂಗನಾಥಶಾಲೆ ರಸ್ತೆ
		ಉತ್ತರ:	ಬನಶಂಕರಿ ಬಂಡೆಯಿಂದ ಭೂತಪ್ಪನದ ಗುಡಿ ಮೂಲಕ ಕೋಟಿ ದೊಡ್ಡಯ್ಯನ ವೃತ್ತ
		ದಕ್ಷಿಣ:	ಮರಕಟ್ಟೆ ಭೃತ್ಯಪ್ಪನ ಗುಡ್ಡ

ಎಂ.ಕೆ. ಶ್ರೀರಂಗಯ್ಯ  
ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು  
ಚಿತ್ರದುಗ್ರಾಮ ಜಿಲ್ಲೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ - III Part - III	ಬೆಂಗಳೂರು, ನುರುವಾರ, ಜುಲೈ ೨೭, ೨೦೧೭ (ಶ್ರಾವಣ ೫, ಶಕಾ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 27, 2017 (Shravana 5, Shaka Varsha 1939)	ನಂ. ೭೧೬ No. 716
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ಸಿಬ್ಬಂದಿ ಮತ್ತು ಆಡಳಿತ ಸುಧಾರಣಾ ಸಚಿವಾಲಯ  
ಅಧಿಕೂಜನೆ

ಸಂಖ್ಯೆ: ಸಿಆಸ್‌ಎಲ್ 37 ಹೆಚ್‌ಹೆಚ್‌ಎಲ್ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 27.07.2017

ಮಾನ್ಯ ಶ್ರೀ ಎನ್. ಧರಂಸಿಂಗ್, ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಮಾರ್ಜಿ ಮುಖ್ಯಮಂತ್ರಿಗಳು ಹಾಗೂ ಮಾರ್ಜಿ ಸಂಸತ್ತೆ ಸದಸ್ಯರು ಇವರು ದಿನಾಂಕ: 27.07.2017 ರಂದು ನಿಥನರಾದ ವಿಷಯವನ್ನು ರಾಜ್ಯ ಸರ್ಕಾರವು ತೀವ್ರ ಸಂತಾಪದಿಂದ ಈ ಮೂಲಕ ಪ್ರಕಟಿಸಿದೆ.

ಸುಭಾಷ್‌.ಸಿ. ಕುಂಟಿತ  
ಸರ್ಕಾರದ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿ

**PERSONNEL & ADMINISTRATIVE REFORMS SECRETARIAT  
NOTIFICATION  
No. DPAR 37 HHL 2017, BENGALURU, DATED : 27.07.2017**

THE GOVERNMENT OF KARNATAKA ANNOUNCE WITH MOST PROFOUND REGRET THE DEATH OF **SRI N. DHARAM SINGH, FORMER CHIEF MINISTER OF KARNATAKA AND FORMER MEMBER OF PARLIAMENT ON 27.07.2017.**

**SUBHASH.C. KUNTHIA  
CHIEF SECRETARY TO GOVERNMENT**



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-III Part-III	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೨೯, ೨೦೧೭ (ಶ್ರಾವಣ ೭, ಶಕಾ ವರ್ಷ ೧೯೩೯) Bengaluru, Saturday, July 29, 2017 (Shrawana 7, Shaka Varsha 1939)	ನಂ. ೪೭೭ No. 722
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ಮೊಲೇಸ್ ಇಲಾಖೆ

ಮೊಲೇಸ್ ಆಯುಕ್ತರು ಹಾಗೂ ಜಿಲ್ಲಾ ದಂಡಾಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು ನಗರರವರ ನಡವಳಿಗಳು

ಉಪಸ್ಥಿತರು: ಪ್ರೀತಿ ಸೂದ್, ಎ.ಪಿ.ಎಸ್, ಮೊಲೇಸ್ ಆಯುಕ್ತರು, ಬೆಂಗಳೂರು ನಗರ.

ವಿಷಯ : ದಿನಾಂಕ: 29.07.2017, 30.07.2017 ಹಾಗೂ 06.08.2017ರಂದು ಸಹಾಯಕ ಕೃಷಿ ನಿರ್ದೇಶಕರ ಮತ್ತು ಕೃಷಿ ಅಧಿಕಾರಿ ಹಾಗೂ ಸಹಾಯಕ ಕೃಷಿ ಅಧಿಕಾರಿಗಳ ಮದ್ದಗಳಿಗೆ ನೇರನೇಮಕಾತಿಯ ಸ್ವಧಾರ್ತಕ ಪರೀಕ್ಷೆಗಳು ನಡೆಯುವ ಪರೀಕ್ಷೆ ಕೇಂದ್ರಗಳ ಸುತ್ತಲು ಪ್ರತಿಬಂಧಕಾಜ್ಞೆಯನ್ನು ವಿಧಿಸುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ : ಜಿಲ್ಲಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೆಂಗಳೂರು ಜಿಲ್ಲೆ, ಬೆಂಗಳೂರು ರವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಪರೀಕ್ಷೆ/ಸಿಆರ್/07/2017-18, ದಿನಾಂಕ: 24.07.2017.

## ಪ್ರಸ್ತಾವನೆ:

ಕರ್ನಾಟಕ ಪರೀಕ್ಷೆ ಪ್ರಾಧಿಕಾರದ ವರ್ತಿಯಿಂದ ದಿನಾಂಕ: 29.07.2017 ರಂದು ನಡೆಯುವ ಸಹಾಯಕ ಕೃಷಿ ನಿರ್ದೇಶಕರ ಮದ್ದಗಳ ಪರೀಕ್ಷೆ, ದಿನಾಂಕ: 30.07.2017 ರಂದು ಕೃಷಿ ಅಧಿಕಾರಿಗಳ ಮದ್ದಗಳ ಪರೀಕ್ಷೆ ಹಾಗೂ ದಿನಾಂಕ: 06.08.2017 ರಂದು ಸಹಾಯಕ ಕೃಷಿ ಅಧಿಕಾರಿ ಮದ್ದಗಳಿಗೆ ನೇರ ನೇಮಕಾತಿಯ ಸ್ವಧಾರ್ತಕ ಪರೀಕ್ಷೆಗಳು ಸುಸೂತ್ರವಾಗಿ ಮತ್ತು ದೋಷರಹಿತವಾಗಿ ನಡೆಸುವ ಸಲುವಾಗಿ ಪರೀಕ್ಷೆ ಕೇಂದ್ರಗಳ 200 ಮೀಟರ್ ಸುತ್ತಲೂ ನಿರ್ವೇದಾಜ್ಞೆಯನ್ನು ಮೊರದಿಸಲು ಉಲ್ಲೇಖಿತ ಪತ್ರದಲ್ಲಿ ಅವರ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು, ಬೆಂಗಳೂರು ಜಿಲ್ಲೆರವರು ಕೋರಿರುತ್ತಾರೆ.

ಈ ಮೇಲಿನ ಎಲ್ಲಾ ಸ್ವಧಾರ್ತಕ ಪರೀಕ್ಷೆಗಳು ಸುಸೂತ್ರವಾಗಿ ಹಾಗೂ ದೋಷರಹಿತವಾಗಿ ನಡೆಯಲು ಪರೀಕ್ಷೆ ಕೇಂದ್ರಗಳ ಸುತ್ತಲೂ 200 ಮೀಟರ್ ವ್ಯಾಪ್ತಿಯ ಪ್ರದೇಶಕ್ಕೆ ಅನ್ವಯಿಸುವಂತೆ ನಿರ್ವೇದಾಜ್ಞೆ ಮೊರದಿಸುವುದು ಅಗತ್ಯವಿರುವುದನ್ನು ಮನಗೆಂಡಿರುತ್ತೇನೆ. ಆದ್ದರಿಂದ ಈ ಆದೇಶ-

ಆದೇಶ ಸಂಖ್ಯೆ: ಎಸ್.ಬಿ/ಗು.ವಾ/ನಿರ್ವೇದಾಜ್ಞೆ-22/2017, ದಿನಾಂಕ: 28.07.2017.

ಈ ದಿನೆಯಲ್ಲಿ, ದಿನಾಂಕ: 29.07.2017 ರಂದು ನಡೆಯುವ ಸಹಾಯಕ ಕೃಷಿ ನಿರ್ದೇಶಕರ ಮದ್ದಗಳ ಪರೀಕ್ಷೆ, ದಿನಾಂಕ: 30.07.2017 ರಂದು ಕೃಷಿ ಅಧಿಕಾರಿಗಳ ಮದ್ದಗಳ ಪರೀಕ್ಷೆ ಹಾಗೂ ದಿನಾಂಕ: 06.08.2017 ರಂದು ಸಹಾಯಕ ಕೃಷಿ ಅಧಿಕಾರಿ ಮದ್ದಗಳಿಗೆ ನೇರ ನೇಮಕಾತಿಯ ಸ್ವಧಾರ್ತಕ ಪರೀಕ್ಷೆಗಳು ಸುಸೂತ್ರವಾಗಿ ಮತ್ತು ದೋಷರಹಿತವಾಗಿ ನಡೆಸುವ ದ್ವಾರ್ಪಾಯಿಂದ, ನನಗೆ ದಂಡ ಪ್ರಕ್ರಿಯಾ ಸಂಹಿತೆಯ ಕಲಂ 144ನೇ ಪ್ರಕರಣದ ಅನ್ವಯ ಪ್ರದರ್ಶನವನ್ನು ಚಲಾಯಿಸಿ, ಪ್ರೀತಿ ಸೂದ್, ಎಪಿಎಸ್, ಮೊಲೇಸ್ ಆಯುಕ್ತರು, ಬೆಂಗಳೂರು ನಗರ ಆದ ನಾನು, ದಿನಾಂಕ: 29.07.2017, ದಿನಾಂಕ: 30.07.2017 ಪರೀಕ್ಷೆಗಳು ಹಾಗೂ ದಿನಾಂಕ: 06.08.2017 ರಂದು ನೇಮಕಾತಿ ಸ್ವಧಾರ್ತಕ ಪರೀಕ್ಷೆಗಳು ನಡೆಯುವ ಸಮಯದಲ್ಲಿ ಬೆಂಗಳೂರು ನಗರ ಮೊಲೇಸ್ ಕೆಮೀಷನ್‌ರೇಚ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಪರೀಕ್ಷೆ ನಡೆಯುವ ಎಲ್ಲಾ ಕೇಂದ್ರಗಳ 200 ಮೀಟರ್ ಸುತ್ತಲಿನ ಪ್ರದೇಶವನ್ನು ನಿರ್ವೇದಿತ ಪ್ರದೇಶವೆಂದು ಘೋಷಿಸಿ ಪ್ರತಿಬಂಧಕಾಜ್ಞೆಯನ್ನು ವಿಧಿಸಿರುತ್ತೇನೆ.

ಈ ನಡವಳಿಯನ್ನು ನನ್ನ ಸಹಿ ಮತ್ತು ನನ್ನ ಕಛೇರಿಯ ಮೊಹರಿನಲ್ಲಿ 2017ರ ಜುಲೈ ಮಾಹೆಯ ದಿನಾಂಕ 28ರಂದು ಮೊರದಿಸಲಾಗಿದೆ.

ಪ್ರೀತಿ ಸೂದ್  
ಮೊಲೇಸ್ ಆಯುಕ್ತರು ಹಾಗೂ ಜಿಲ್ಲಾ ದಂಡಾಧಿಕಾರಿಗಳು ಬೆಂಗಳೂರು ನಗರ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯ

# ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು «ತಿಂಗಳಾದ ಯಾವರೆ

Part-IV      AUKAAGA, BENGALURU, JULY 10, 2017 (DIPAKA 19, SHAKA VARSHA 1939)      No. 658  
Bengaluru, Monday, July 10, 2017 (Ashada 19, Shaka Varsha 1939)      No. 658

**ÁGUAZÉA<sup>a</sup>MÁ DAI<sup>a</sup>ZÉA  
ÁOZÉA ZÉA D<sup>a</sup>ZEAPAGA<sup>a</sup> E<sup>a</sup>P<sup>a</sup>Z<sup>a</sup>R - 110001.**

ФЕДАРАЦИЯ 19 ФЕВРАЛЯ 2017  
19 ФЕВРАЛЯ 1939 (±Р)

CFO MEETING

„ASÍ 479/2017- Ágma zæfáluá dáiðeauða 2017-gá gámuvinuá zæfáluúé „ASACI” závé 1974gá gámuvinuá Ává G¥agámuvinuá zæfáluáia xaiia 7gá CÉ, Ágá dáiðeauða Cfiðezeí, ASÍ 479/2017(2) fæfápa 14. Eða dæfí 2017 gáre Ávæzæfí, Þá a Ává D. Muñkþ e Ává zæfáluá, Þá oþvina a Ávæzæfí, Þá eopþeib Cfiðeza 1. zí a Ává

Dzjé F CcüñEZÉAIA n¥taiavé aAvzÁEbz c£áappé 10 c£umá aAAavp ÁV Aiaábz Á, Á, Á  
bz ÁgN «ZAE, Á, Á, bz Ág, «+ÁpC x aAAiðo , Áz ÁDUMP e Ca j UVCg Á uAA; ue aAvzÁEa aAAqP Á  
CcüñEZÁ , DpEAB oÁgMÁ¥-1, Ca j ZAIÁvÉ ``Agé , Áz Áp e aAvzÁEa aAAqA Á EZØ EzP e oUcvA  
EP ÁEEFÁIA e FÁqP ÁV ``AgáA ZAE, Á, DAiÁEUPe Cfð , P e Is oÁzÁVq Ávz e aAvA

Dzḡé wā'a Áza vāvāō , Áza' Dz̄p̄ e yke'a D̄ a iA>waiEEĀB oArz̄p̄ e oucūk̄v̄ḡaÀ10 c̄eūm̄a uib̄aEEĀB  
Gz̄áj̄ Áp̄b̄t̄ uE½. p̄A dAIÉAUP̄A oZD̄i ¹q̄v̄l̄é

CzgAVÉ aĀĀ@AqÀ GzĀ±PÁN, aĀVzÁEzÀ CÉÁAPPÉ 10 CÉUJÁ aĀAAavPÁZÀ Uqä«EÀ FAVPÉ, DAiEÁUzPÈ CAvPÀ PzEj PÚMÀ AiiAaAzazjKE 1APivPÁzPÈ aEAIQpÀ ¥BjtzÀ ,AzA ÁOÉA, AgÀ CAvPÀ PzEj PAiAEÄB ¥j Ujñ, CAvPÀ ,A ,Mì ,zA ,gñ«zAÉA ,A ,zA ,j UÉ CAj UÍCagÀ UÑA; UÉ CéüKEa1gAa ,zA ,PzEÄB oEgm¥j<sup>1</sup> ..Agé ,zA ,zPÈ aĀVzÁEzÀ aĀqPÀ, CAvPÀ aĀVzÁEPÉ ,zEPÈ aPj ,i aĀqPÀ ,pA ,i ,a ,PÁ±kzPÈ DAiEÁUzÀ aĀVzÁEPÉ CÁPÁ±xÁqAvzÉ

DZÄ+ÄEÄ, ÄgÄ

(<sup>a</sup>) AAzgi Päa Ági)  
Yáfá PÁAÍÓZPÓ

# ELECTION COMMISSION OF INDIA

Nirvachan Sadan, Ashoka Road, New Delhi-110001.

Dated the 10<sup>th</sup> July, 2017

19 Ashadha, 1939 (Saka)

## NOTIFICATION

No. 479/2017: - Whereas, the Election Commission of India, in connection with conduct of Presidential Election, 2017, has notified under Rule 7 of the Presidential and Vice- Presidential Election Rules, 1974, vide its Notification no. 479/2017(2) dated 14<sup>th</sup> June, 2017, the Place of polling and Group of electors who will be entitled to vote at those places of poll; and

Whereas, in the Note to the said Notification, a limit of 10 days before the date of poll has been fixed, before which any Member of Parliament/Member of Legislative Assembly, on account of exigency for special circumstances, has to intimate if he desires to vote at place of polling other than the one notified for his/her group, by directly applying to the Election Commission of India in the prescribed format; and

Whereas, the Commission has decided to liberalise the above said stipulation of 10 days' prior intimation in case of extreme urgent situation;

Now, therefore, the Commission has decided that the requests for the aforesaid purpose, received in the commission, even after 10 days before the date of poll, if any, may be considered by the commission based upon the circumstances of individual case and allow such Member of Parliament/Member of Legislative Assembly to cast vote at place of polling other than the one notified for his/her group, if there is sufficient time available for making necessary arrangements in this regard.

By Order



(VARINDER KUMAR)  
PRINCIPAL SECRETARY



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು, ಶುಕ್ರವಾರ, ಜುಲೈ ೨೧, ೨೦೧೭ (ಅಷಾಡ ೩೦, ಶಕ ವರ್ಷ ೧೯೩೯)

ನಂ. ೧೦೫

Part-IV Bengaluru, Friday, July 21, 2017 (Ashada 30, Shaka Varsha 1939)

No. 705

ಸಿಬ್ಬಂದಿ ಮತ್ತು ಆಡಳಿತ ಸುಧಾರಣೆ ಸಚಿವಾಲಯ

ಅಧಿಕಾರಿಗಳ ಹೆಸರುಗಳನ್ನೊಂದೆ ನಮೂನೆ ೫ ರಲ್ಲಿಯ ಪಟ್ಟಿಯನ್ನು ಸಾರ್ವಜನಿಕರ ತಿಳುವಳಿಕೆಗಾಗಿ ಈ ಮೂಲಕ ಮನ್ಯಾದಿಗಳ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ಸಂಖ್ಯೆ: ಸಿಆರ್ಎಂಎಂ ೦೬ ಕುಲೋಸ ೨೦೧೭, ದಿನಾಂಕ: ೨೧ನೇ ಜುಲೈ, ೨೦೧೭

ಇದಕ್ಕೆ ಲಗತ್ತಿಸಿರುವ ದಿನಾಂಕ: ೨೧ನೇ ಜುಲೈ ೨೦೧೭ರ ಭಾರತದ ಉಪ-ರಾಷ್ಟ್ರಪತಿಗಳ ಅಧಿಕಾರ ಪದಕ್ಕೆ ಸ್ವಧಿಸಿರುವ ಅಭ್ಯರ್ಥಿಗಳ ಹೆಸರುಗಳನ್ನೊಂದೆ ನಮೂನೆ ೫ ರಲ್ಲಿಯ ಪಟ್ಟಿಯನ್ನು ಸಾರ್ವಜನಿಕರ ತಿಳುವಳಿಕೆಗಾಗಿ ಈ ಮೂಲಕ ಮನ್ಯಾದಿಗಳ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಎನ್.ಎನ್. ರಾಮಕೃಷ್ಣ  
ಸಹಾಯಕ ಮುಖ್ಯ ಚುನಾವಣಾಧಿಕಾರಿ ಹಾಗೂ  
ಪದ್ಧತಿ ಸಹಾಯಕ ಅಧಿಕಾರಿ ಕಾರ್ಯದಲ್ಲಿ,  
ಸಿ.ಆ.ಸು.ಇ. (ಚುನಾವಣೆಗಳು)

ಚುನಾವಣಾಧಿಕಾರಿ, ಭಾರತದ ಉಪ-ರಾಷ್ಟ್ರಪತಿಗಳ ಅಧಿಕಾರ ಪದದ ಚುನಾವಣೆ, ೨೦೧೭  
ಮತ್ತು ಮಹಾ ಕಾರ್ಯದಲ್ಲಿ, ರಾಜ್ಯ ಸಭೆ ರವರ ಕೆಳೀರಿ  
ನಮೂನೆ ೫

(ರಾಷ್ಟ್ರಪತಿಗಳ ಮತ್ತು ಉಪ-ರಾಷ್ಟ್ರಪತಿಗಳ ಚುನಾವಣಾ ನಿಯಮಾವಳಿ, ೧೯೭೪ರ ನಿಯಮ ಮೊದಲಿ)  
ಭಾರತದ ಉಪ-ರಾಷ್ಟ್ರಪತಿಗಳ ಅಧಿಕಾರ ಪದದ ಚುನಾವಣೆ  
ಚುನಾವಣೆಗೆ ಸ್ವಧಿಸಿರುವ ಅಭ್ಯರ್ಥಿಗಳ ಪಟ್ಟಿ

ಕ್ರ. ನಂ.	ಅಭ್ಯರ್ಥಿಯ ಹೆಸರು	ಅಭ್ಯರ್ಥಿಯ ವಿಳಾಸ
೧	ಶ್ರೀ ಗೋಪಾಲಕೃಷ್ಣ	ಹೊಸ ಮನೆ ನಂ. ೭, ೨ನೇ ಸೀವಾಡ್‌ ರಸ್ತೆ, ತಿರುವಾನಾದಿಯೂರ್ (ಹೊವೆ), ಜೆನ್ನೆ-೬೦೦೦೪೧.
೨	ಶ್ರೀ ವೆಂಕಟ್ಯಾ ನಾಯ್ಯ ಎಂ.	ಮನೆ ನಂ. ಜ-೧೧, ೪ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ೧೨ನೇ ಅಡ್ಡ ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು-೫೬೦೦೦೩.

ಸ್ಥಳ: ನವದೆಹಲ್ಲಿ;  
ದಿನಾಂಕ: ೨೧ನೇ ಜುಲೈ, ೨೦೧೭

(ಶ್ರೀ ಕೆ. ಪರೀಂಥ್ರಾ)  
ಚುನಾವಣಾಧಿಕಾರಿ, ಭಾರತದ ಉಪ-ರಾಷ್ಟ್ರಪತಿಗಳ ಚುನಾವಣೆ, ೨೦೧೭  
ಮತ್ತು  
ಮಹಾ ಕಾರ್ಯದಲ್ಲಿ, ರಾಜ್ಯ ಸಭೆ.

**PERSONNEL AND ADMINISTRATIVE REFORMS SECRETARIAT  
NOTIFICATION  
NO: DPAR 06 CHULOSA 2017, DATED 21<sup>ST</sup> JULY 2017**

The accompanying list of contesting candidates in Form 5, dated the 21<sup>st</sup> July, 2017, relating to the election to the office of Vice-President of India, is hereby republished for information of the General Public.

By Order and in the Name of the Governor of Karnataka,

**S.N. RAMAKRISHNA**

Assistant Chief Electoral Officer &  
Ex-Officio Under Secretary to Govt.,  
DPAR (Elections).

**OFFICE OF THE RETURNING OFFICER FOR THE VICE-PRESIDENTIAL ELECTION,  
2017 AND  
SECRETARY-GENERAL, RAJYA SABHA**

**FORM 5**

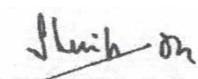
(See rule 6 of the Presidential and Vice-Presidential Elections Rules, 1974)

**Election to the Office of Vice-President of India**

**LIST OF CONTESTING CANDIDATES**

<b>Sl. No.</b>	<b>Name of Candidate</b>	<b>Address of Candidate</b>
1	Shri Gopalakrishna	New Door No. 7, 2 <sup>nd</sup> Seaward Road, Thiruvanmiyur (East), Chennai- 600041.
2	Shri Venkaiah Naidu M.	House No. G-11, 8 <sup>th</sup> Main Road, 12 <sup>th</sup> Cross Road, Malleshwaram, Bengaluru-560003.

Place: New Delhi;  
Dated the 21<sup>st</sup> of July, 2017

  
**(SHUMSHER K. SHERIFF)**  
 RETURNING OFFICER FOR THE  
 VICE-PRESIDENTIAL ELECTION, 2017  
 AND  
 SECRETARY-GENERAL,  
 RAJYA SABHA



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

Part-IV      AUKAAGA, ±PAKAAGA dÄ-TE 28, 2017 (±AAK 6, ±PAKAAGA 1939)      f. 717  
Bengaluru, Friday, July 28, 2017 (Shrawana 6, Shaka Varsha 1939)      No. 717

**ÁGIVAZÉA<sup>a</sup> MÁ DAIÉAUA  
ÁOZÉA ZÉA D+ÉAPÀgÀ B EAPÀPÀ - 110001.**

ФЕДАПА 27 ФЕДА-Е, 2017  
± АДАЛ 5, 1939 (± РА)

Cfür MZEZEE

„ASÍ 480/2017-BE- gÁPUVIV aÁVÁO G¥À gÁPUVIVAIÀ ÞA ZÆÁA MUÞA ÞAIÀ MUÞA,  
1974gÀ 27EÀ ÞAIÀA ÞAZÀ CÆÀ ÁgPÁV, ÇEÁAPÀ 5EÀ DUÀ, iØ 2017gÀ (þEÀ Ág) , Æf 6.00 UAMUÉ  
G¥ÀgÁPUVIV ZÆÁA MUÉ 2017gÀ aÁVÀ JTÞAIAA ZÆÁA MUÞPÁJ UÞA PbÁJ AIÀ PÆOR „ASÍ 62,  
1EÀ aÁoR, „A, Ni „PÆA EÞLZPÀ E° e fIqAIÀVIZAZÀ „ÁgMÀ ZÆÁA MUÁ DAiÆAUÞA F  
aÁE®PÀ ÞCÐUÞR, ÁvIzE

DZÁ±ÁFÁ, ÁgÁ  
Dagan Kino  
(Dgi.PÉ 2Á, B)  
»i AíÁ ¥, ÁFÁPÁAÍÖZBÓ.

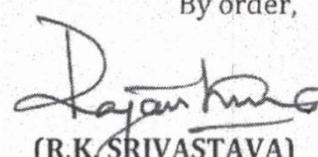
**ELECTION COMMISSION OF INDIA**  
**Nirvachan Sadan, Ashoka Road, New Delhi-110001.**

Dated 27<sup>th</sup> July, 2017  
Shravana 5, 1939 (Saka)

**NOTIFICATION**

No. 480/2017-BE - In pursuance of rule 27 of the Presidential and Vice-Presidential Elections Rules, 1974, the Election Commission of India hereby appoints the 5<sup>th</sup> August, 2017 (Saturday), as the day on which and 6.00 p.m. of that day as the time at which, the counting of votes for the Vice-Presidential Election, 2017, shall take place in the office of the Returning Officer in Room No. 62, First Floor, Parliament House, New Delhi.

By order,



(R.K. SRIVASTAVA)  
**Sr. PRINCIPAL SECRETARY**



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಮಂಗಳೂರು, ಜುಲೈ ೧೧, ೨೦೧೭ (ಆಷಾಡ್ ೨೦, ಶತ ವರ್ಷ ೧೯೩೯)

ನಂ. ೬೭೪  
No. 674

ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ ಸಚಿವಾಲಯ  
ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ: ಗ್ರಾಂಪ 325 ಗ್ರಾಪಂಪ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 05.07.2017

ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ ಅಧಿನಿಯಮ, 1993 (1993ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ 14)ರ ಪ್ರಕರಣ 311 ರಲ್ಲಿ ಪ್ರದರ್ಶನದ ಅಧಿಕಾರಗಳನ್ನು ಚಲಾಯಿಸಿ, ಕರ್ನಾಟಕ ಸರ್ಕಾರವು, ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ (ಪಂಚಾಯತ್ರೋ ಜರ್ಮಾಬಂದಿ ನಿರ್ವಹಣೆ) ನಿಯಮಗಳು, 2004 ನ್ನು ಮತ್ತು ತಿದ್ದುಪಡಿ ಮಾಡಲು ಉದ್ದೇಶಿಸಿರುವ ಕರಡನ್ನು ಸದರಿ ಅಧಿನಿಯಮದ ಪ್ರಕರಣ 311 ನೇ ಪ್ರಕರಣದ ಮೂಲಕ ಅಗತ್ಯಪಡಿಸಲಾದಂತೆ, ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಎಲ್ಲಾ ವ್ಯಕ್ತಿಗಳ ಮಾಹಿತಿಗಾಗಿ ಈ ಮೂಲಕ ಪ್ರಕಟಿಸಲಾಗಿದೆ ಮತ್ತು ಸದರಿ ಕರಡನ್ನು, ಸರ್ಕಾರಿ ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಿದ ದಿನಾಂಕದಿಂದ ಮೂವತ್ತು ದಿನಗಳ ನಂತರ ಪರಿಗಣನೆಗೆ ತೆಗೆದುಕೊಳ್ಳಲಾಗುತ್ತದೆಂದು ಈ ಮೂಲಕ ಸೂಚನೆಯನ್ನು ನೀಡಲಾಗಿದೆ.

ಮೇಲೆ ನಿರ್ದಿಷ್ಟಪಡಿಸಿದ ಅವಧಿಯು ಮುಕ್ತಾಯವಾಗುವ ವೇದಳು ಸದರಿ ಕರಡಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಯಾವೋಬ್ಬ ವ್ಯಕ್ತಿಯಿಂದ ರಾಜ್ಯ ಸರ್ಕಾರವು ಸ್ವೀಕರಿಸಬಹುದಾದ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆಯನ್ನು ರಾಜ್ಯ ಸರ್ಕಾರವು ಪರಿಗಳಿಸುವುದು. ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಮತ್ತು ಸಲಹೆಗಳನ್ನು ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ ಇಲಾಖೆ, ಬಹುಮಹಡಿಗಳ ಕಟ್ಟಡ, 3ನೇ ಹಂತ, 3ನೇ ಮಹಡಿ, ಡಾ॥ ಅಂಬೇಷ್ಟ್ರೋ ಪೀಠಿ, ಬೆಂಗಳೂರು-01, ಇವರಿಗೆ ಕಳುಹಿಸಲು ಕೋರಲಾಗಿದೆ.

## ಕರಡು ನಿಯಮಗಳು

- ಹೆಸರು ಮತ್ತು ಘ್ರಾಂಭಃ:-** (1) ಈ ನಿಯಮಗಳನ್ನು ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ (ಪಂಚಾಯತ್ರೋ ಜರ್ಮಾಬಂದಿ ನಿರ್ವಹಣೆ) (ತಿದ್ದುಪಡಿ) ನಿಯಮಗಳು, 2017 ಎಂದು ಕರೆಯತಕ್ಕದ್ದು.
- (2) ಈ ನಿಯಮಗಳು 2015 ರ ಫೆಬ್ರವರಿ 2ನೇ ದಿನಾಂಕದಿಂದ ಜಾರಿಗೆ ಬಂದಿರುವುದಾಗಿ ಭಾವಿಸತಕ್ಕದ್ದು.
- ನಿಯಮ 1ರ ತಿದ್ದುಪಡಿ:-** ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ (ಪಂಚಾಯತ್ರೋ ಜರ್ಮಾಬಂದಿ ನಿರ್ವಹಣೆ) ನಿಯಮಗಳು, 2004 ರ (ಇಲ್ಲಿ ಇನ್ನೂ ಮುಂದೆ ಮೂಲ ನಿಯಮಗಳಿಂದ ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ) ರ ನಿಯಮ 1 ರ, ಉಪ-ನಿಯಮ (1) ರಲ್ಲಿ, “ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳಿಗೆ “ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೋ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

3. ನಿಯಮ 2ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳು, ನಿಯಮ 2 ರಲ್ಲಿ (ಅ) ಖಂಡದ ಬದಲಾಗಿ ಈ ಕೆಳಕಂಡ ಖಂಡವನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು, ಎಂದರೆ,-

“(ಅ) “ಅಧಿನಿಯಮ” ಎಂದರೆ ಕನಾರಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ ಅಧಿನಿಯಮ, 1993 (1993 ರ ಕನಾರಟಕ ಅಧಿನಿಯಮದ ಸಂಖ್ಯೆ 14)”

4. ನಿಯಮ 7ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳ, 7ನೇ ನಿಯಮದಲ್ಲಿ, ಖಂಡ (ಎ) ಬದಲಾಗಿ ಈ ಕೆಳಕಂಡ ಖಂಡವನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು ಎಂದರೆ,-

“(ಎ) ಕನಾರಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ ಮತ್ತು ಪಂಚಾಯತ್ ರಾಜ್ (ಗ್ರಾಮ ಪಂಚಾಯತಿಯ ಆಯವ್ಯಯ ಮತ್ತು ಲೆಕ್ಕಪತ್ರಗಳು) ನಿಯಮಗಳು, 2006”

5. ನಿಯಮ 8 ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳ, 8ನೇ ನಿಯಮದ, (ಎ) ಖಂಡದಲ್ಲಿ, “ಖಾತಾ ರಿಜಿಸ್ಟ್ರೇಷನ್” ಎಂಬ ಪದಗಳ ಬದಲಾಗಿ “ಅಸೆಸ್‌ಮೆಂಟ್ ರಿಜಿಸ್ಟ್ರೇಷನ್” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

6. ನಿಯಮ 9 ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳ, 9ನೇ ನಿಯಮದ, ಉಪ-ನಿಯಮ(1) ರಲ್ಲಿ “ಖಾತಾ ರಿಜಿಸ್ಟ್ರೇಷನ್” ಎಂಬ ಪದಗಳ ಬದಲಾಗಿ “ಅಸೆಸ್‌ಮೆಂಟ್ ರಿಜಿಸ್ಟ್ರೇಷನ್” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

ಕನಾರಟಕ ರಾಜ್ಯಪಾಲರ ಆಜ್ಞಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

ಟಿ.ವಿ. ಅರುಣ್ ಸುಮಾರ್  
ಉಪನಿರ್ದೇಶಕರು ಹಾಗೂ ಪದನಿರ್ಮಿತ್ತ  
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದಲ್ಲಿ  
ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂ.ರಾಜ್ ಇಲಾಖೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಮಂಗಳವಾರ, ಜುಲೈ ೧೧, ೨೦೧೭ (ಆಷಾಡ್ ೨೦, ಶತ ವರ್ಷ ೧೯೩೯)

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಮಂಗಳವಾರ, ಜುಲೈ ೧೧, ೨೦೧೭ (ಆಷಾಡ್ ೨೦, ಶತ ವರ್ಷ ೧೯೩೯) Bengaluru, Tuesday, July 11, 2017 (Ashada 20, Shaka Varsha 1939)	ನಂ. ೬೭೫ No. 675
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ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ ಸಚಿವಾಲಯ  
ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ: ಗ್ರಾಮ 382 ಗ್ರಾಮಂ 2016, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 05.07.2017

ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ ಅಧಿನಿಯಮ, 1993 (1993ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ 14)ರ ಪ್ರಕರಣ 241, 242, 243, 244, 245 ಮತ್ತು 246 ರೊಡನೆ ಓದಿಕೊಂಡಂತೆ ಪ್ರಕರಣ 311 ರಲ್ಲಿ ಪ್ರದರ್ಶನದ ಅಧಿಕಾರಗಳನ್ನು ಚಲಾಯಿಸಿ, ಕರ್ನಾಟಕ ಸರ್ಕಾರವು, ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ (ಆಯವ್ಯಯ ಮತ್ತು ಲೆಕ್ಕಪತ್ರಗಳು) ನಿಯಮಗಳು, 2006 ನ್ನು ಮತ್ತು ತಿದ್ದುಪಡಿ ಮಾಡಲು ಉದ್ದೇಶಿಸಿರುವ ಕರಡನ್ನು ಸದರಿ ಅಧಿನಿಯಮದ ಪ್ರಕರಣ 311 ನೇ ಪ್ರಕರಣದ ಮೂಲಕ ಅಗತ್ಯಪಡಿಸಲಾದಂತೆ, ಇದರಿಂದ ಬಾಧಿತರಾಗಬಹುದಾದ ಎಲ್ಲಾ ವ್ಯಕ್ತಿಗಳ ಮಾಹಿತಿಗಾಗಿ ಈ ಮೂಲಕ ಪ್ರಕಟಿಸಲಾಗಿದೆ ಮತ್ತು ಸದರಿ ಕರಡನ್ನು, ಸರ್ಕಾರಿ ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಿದ ದಿನಾಂಕದಿಂದ ಮೂವತ್ತು ದಿನಗಳ ನಂತರ ಪರಿಗಣನೆಗೆ ತೆಗೆದುಕೊಳ್ಳಲಾಗುತ್ತದೆಂದು ಈ ಮೂಲಕ ಸೂಚನೆಯನ್ನು ನೀಡಲಾಗಿದೆ.

ಮೇಲೆ ನಿರ್ದಿಷ್ಟಪಡಿಸಿದ ಅವಧಿಯು ಮುಕ್ತಾಯವಾಗುವ ವೋಡಲು ಸದರಿ ಕರಡಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಯಾವೇಬ್ಬ ವ್ಯಕ್ತಿಯಿಂದ ರಾಜ್ಯ ಸರ್ಕಾರವು ಸ್ವೀಕರಿಸಬಹುದಾದ ಆಕ್ಷೇಪಣೆ ಅಥವಾ ಸಲಹೆಯನ್ನು ರಾಜ್ಯ ಸರ್ಕಾರವು ಪರಿಗೊಸುವುದು. ಆಕ್ಷೇಪಣೆಗಳನ್ನು ಮತ್ತು ಸಲಹೆಗಳನ್ನು ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ, ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ ಇಲಾಖೆ, ಬಹುಮಹಡಿಗಳ ಕಛೇಡ, 3ನೇ ಹಂತ, 3ನೇ ಮಹಡಿ, ಡಾ॥ ಅಂಬೇಷ್ಟ್ರೋ ಪೀಠಿ, ಬೆಂಗಳೂರು-01, ಇವರಿಗೆ ಕಳುಹಿಸಲು ಕೋರಲಾಗಿದೆ.

## ಕರಡು ನಿಯಮಗಳು

- ಹೆಸರು ಮತ್ತು ಘೂರಂಭ:- (1) ಈ ನಿಯಮಗಳನ್ನು ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ (ಆಯವ್ಯಯ ಮತ್ತು ಲೆಕ್ಕಪತ್ರ) (ತಿದ್ದುಪಡಿ) ನಿಯಮಗಳು, 2017 ಎಂದು ಕರೆಯಲಾಗುತ್ತದ್ದು.
   
 (2) ಈ ನಿಯಮಗಳು ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿತವಾದ ದಿನಾಂಕದಿಂದ ಜಾರಿಗೆ ಬರತಕ್ಕದ್ದು.
- ನಿಯಮ 1ರ ತಿದ್ದುಪಡಿ:- ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ (ಆಯವ್ಯಯ ಮತ್ತು ಲೆಕ್ಕಪತ್ರ) ನಿಯಮಗಳು, 2006 ರ (ಇಲ್ಲಿ ಇನ್ನೂ ಮುಂದೆ ಮೂಲ ನಿಯಮಗಳೆಂದು ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ) ರ ನಿಯಮ 1 ರ, ಉಪ-ನಿಯಮ (1) ರಲ್ಲಿ, “ಕರ್ನಾಟಕ ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳಿಗೆ “ಕರ್ನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರೀ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

3. ಮೂಲ ನಿಯಮದ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳಲ್ಲಿ “ಕಾರ್ಯದಶೀರ್ಷ” ಎಂಬ ಪದವು ಎಲ್ಲೆಲ್ಲಿ ಬರುವುದೋ, ಆ ಪದದ ಬದಲಾಗಿ “ಪಂಚಾಯತಿ ಅಭಿವೃದ್ಧಿ ಅಧಿಕರಿ” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.
4. ನಿಯಮ 2ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳ, ನಿಯಮ 2 ರ (i) ನೇ ಖಂಡದಲ್ಲಿ “ಕನಾಟಕ ಪಂಚಾಯತ್ರ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳಿಗೆ “ಕನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರ ರಾಜ್ಯ” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.
5. ನಿಯಮ 17 ರ ತಿದ್ದುಪಡಿ:- ಮೂಲ ನಿಯಮಗಳ, 17ನೇ ನಿಯಮದಲ್ಲಿ “ಕನಾಟಕ ಪಂಚಾಯತ್ರ ರಾಜ್ಯ ಅಧಿನಿಯಮ 1993” ಎಂಬ ಪದಗಳು ಮತ್ತು ಅಂಕಿಗಳಿಗೆ “ಕನಾಟಕ ಗ್ರಾಮ ಸ್ವರಾಜ್ಯ ಮತ್ತು ಪಂಚಾಯತ್ರ ರಾಜ್ಯ ಅಧಿನಿಯಮ 1993” ಎಂಬ ಪದಗಳು ಮತ್ತು ಅಂಕಿಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

ಕನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆಜ್ಞಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

ಟಿ.ವಿ. ಅರುಣ್‌ಕುಮಾರ್  
ಉಪನಿರ್ದೇಶಕರು ಹಾಗೂ ಪದನಿರ್ಮಿತ್ತ  
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದಶೀರ್ಷ  
ಗ್ರಾಮೀಣಾಭಿವೃದ್ಧಿ ಮತ್ತು ಪಂ.ರಾಜ್ಯ ಇಲಾಖೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಶನಿವಾರ, ೧೫ ಜುಲೈ, ೨೦೧೭ (ಅಷಾಡ ೨೪, ಶಕ ವರ್ಷ ೧೯೩೯)

ಭಾಗ-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೧೫, ೨೦೧೭ (ಅಷಾಡ ೨೪, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೬೮೭
Part-IVA	Bengaluru, Saturday, July 15, 2017 (Ashada 24, Shaka Varsha 1939)	No. 687

## URBAN DEVELOPMENT SECRETARIAT

### NOTIFICATION-I

No. UDD 14 TTP 2017(P-3), Bengaluru, Date: 11.07.2017

The draft of the **Karnataka Municipalities Model Building Bye-Laws 2017** which the Government of Karnataka proposes to make in exercise of the powers conferred by sub-section (1) of section 325 of the Karnataka Municipalities Act, 1964 (Karnataka Act 22 of 1964) is hereby published as required by sub-section (1) of section 325 of the said Act, for the information of all the persons likely to be affected thereby and notice is hereby given that the said draft will be taken into consideration after one month from the date of its publication in the Official Gazette.

Any objection or suggestion which may be received by the State Government from any person with respect to the said draft before the expiry of the period specified above will be considered by the State Government. Objections and suggestions may be addressed to the Director, Town and Country Planning Department, M.S. Building, Gate-04, Bengaluru-560001.

### DRAFT COMMON BUILDING BYE LAWS

#### 1. TITLE, COMMENCEMENT AND APPLICATION.

#### 2. DEFINITIONS

1. 'Access'
2. 'Act'
3. 'Addition and/or Alteration'
4. 'Agriculture'
5. 'Air-conditioning'
6. 'Amalgamation'
7. 'Amenity'
8. 'Annexure'
9. 'Apartment'
10. 'Apartment Building' / 'Group Housing'
11. 'Appendix'
12. 'Application'
13. 'Applicant'
14. 'Approved'
15. 'Architect'
16. 'Architect/Professional on record'
17. 'Auditorium'
18. 'Authority'
19. 'Balcony'

- 20. 'Basement Storey or Cellar'
- 21. 'Bifurcation'
- 22. 'Building'
- 23. 'Building Line'
- 24. 'Building Site'
- 25. 'Bus Depot'
- 26. 'Bus Terminal'
- 27. 'Canopy'
- 28. 'Carpet Area'
- 29. 'Chajja'
- 30. 'Chimney'
- 31. 'Common wall'
- 32. 'Community Hall'
- 33. 'Construction'
- 34. 'Conversion of Occupancy'
- 35. 'Corner plot'
- 36. 'Corridor'
- 37. 'Cornice'
- 38. 'Courtyard'
- 39. 'Cultural buildings'
- 40. 'Damp Proof Course'
- 41. 'Density of Households'
- 42. 'Density of Population'
- 43. 'Development'
- 44. 'DR/T.D.R.'
- 45. 'Drains'
- 46. 'Drainage system'
- 47. 'Duplex'
- 48. 'Dwelling'
- 49. 'Empanelled Professional'
- 50. 'Encroachment'
- 51. 'Existing development'
- 52. 'Existing Use'
- 53. 'Exit'
- 54. 'External Wall'
- 55. 'First floor'
- 56. 'Flatted factory'
- 57. 'Floor'
- 58. 'Floor Area Ratio (FAR)'
- 59. 'Fire and/or Emergency Alarm System'
- 60. 'Fire Hazard Industries'
- 61. 'Fire Lift'
- 62. 'Fire Proof Door'
- 63. 'Fire Pump'
- 64. 'Fire Pump-Booster Fire Pump'
- 65. 'Fire Resistance'
- 66. 'Fire Resistance Rating'
- 67. 'Fire Separation'
- 68. 'Fire Service Inlet'
- 69. 'Fire Tower'
- 70. 'Fire Resisting Building'
- 71. 'Footing'
- 72. 'Form'
- 73. 'Foundation'
- 74. 'Frontage'
- 75. 'Gallery'
- 76. 'Garage-Private'
- 77. 'Garage-Public'
- 78. 'Gas Godown'
- 79. 'Government'
- 80. 'Ground floor'
- 81. 'Ground Coverage'

- 82. 'Habitable Room'
- 83. 'Head Room'
- 84. 'Heritage building'
- 85. 'Heritage Precinct'
- 86. 'High-rise Building'
- 87. 'Height of Building'
- 88. 'Hospital'
- 89. 'Hotel'
- 90. 'Illuminated Exit Signs'
- 91. 'Land use'
- 92. 'Licence'
- 93. 'Licensed Professional'
- 94. 'Lift'
- 95. 'Lobby'
- 96. 'Lodging House'
- 97. 'Loft'
- 98. 'Market value'
- 99. 'Master Plan'
- 100. 'Means of Escape'
- 101. 'Mezzanine Floor'
- 102. 'Multilevel Car Parking (MLCP)'
- 103. 'Multiplex complex'
- 104. 'MCB/ELCB'
- 105. 'Non-Combustible Material'
- 106. 'Nursing home'
- 107. 'Occupancy or use'
- 108. 'Open space in a plot'
- 109. 'Owner'
- 110. 'Parapet'
- 111. 'Parking space'
- 112. 'Partition'
- 113. 'Partition Wall'
- 114. 'Plinth'
- 115. 'Plinth Area'
- 116. 'Plinth level'
- 117. 'Plot' / 'Site'
- 118. 'Porch or portico'
- 119. 'Premium F.A.R.'
- 120. 'Prohibited area'
- 121. 'Promoter'
- 122. 'Protected monument'
- 123. 'Public and semi-public building'
- 124. 'Pump Room'
- 125. 'Recreational Club'
- 126. 'Regulated area'
- 127. 'Repair Shop'
- 128. 'Restaurant'
- 129. 'Retail Shop'
- 130. 'Retention Activity'
- 131. 'Road/Street'
- 132. 'Road/Street Level or Grade'
- 133. 'Road/Street Line'
- 134. 'Road Width or Width of Road/Street'
- 135. 'Room Height'
- 136. 'Service Apartments'
- 137. 'Service Road'
- 138. 'Setback'
- 139. 'Set-back Line'
- 140. 'Site Plan'
- 141. 'Spiral Staircase'
- 142. 'Staircase room'
- 143. 'Stair Cover'

- 144. 'Stilt floor'
- 145. 'Storey'
- 146. 'To Erect'
- 147. 'Un-authorised Development'
- 148. 'Underground/Overhead Tank'
- 149. 'Utility Area'
- 150. 'Ventilation'
- 151. 'Water Closet (W.C.)'
- 152. 'Window'
- 153. 'Zonal Regulations'

### **3. JURISDICTION / APPLICABILITY AND PROCEDURAL REQUIREMENTS FOR OBTAINING BUILDING LICENCE**

- 3.1 Jurisdiction of Building Bye-Laws
- 3.2 Applicability of Building Bye Laws
- 3.3 Applicability of Bye-Laws for all types of building developments
- 3.4 Applicability of Bye-Laws for Part construction
- 3.5 Change of use / occupancy
- 3.6 Requirement in respect of building sites
  - 3.6.1 Damp sites
  - 3.6.2 Minimum Size of sites
  - 3.6.3 Sanction for building site
  - 3.6.4 Restrictions on use of land for construction of buildings
- 3.7 Reconstruction
- 3.8 Existing approved building
- 3.9 Development of Buildings
  - 3.9.1 Building Licence:
  - 3.9.2 Building Licence obtained before these bye-laws:
  - 3.10 Procedure for obtaining building licence
    - 3.10.1 Registration of Stake Holders
    - 3.10.2 Application for building plan approval
    - 3.10.3 Verification of documents submitted
    - 3.10.4 Evaluation of Technical details submitted
    - 3.10.5 Forwarding details to obtain NOCs and issuing NOCs
    - 3.10.6 Submission of Site Inspection Report
    - 3.10.7 Action in case of discrepancy in site inspection report.
    - 3.10.8 Sanctioning of Building License
  - 3.11 Plans for Sanction
    - 3.11.1 Key Plan:
    - 3.11.2 Site Plan
    - 3.11.3 Floor Plan of parking areas
    - 3.11.4 Floor Plans of other uses
    - 3.11.5 Sections of buildings
    - 3.11.6 Elevations of buildings
    - 3.11.7 Drawings for all services provided
    - 3.11.8 Landscape plan
    - 3.11.9 Circulation Plan indicating vehicular and pedestrian movement and parking facilities including traffic impact study and report
  - 3.11.10 Structural Drawings and details
  - 3.11.11 Green Building drawings and details
- 3.12 Signing of plans
  - 3.12.1 Signing the Building Plans
  - 3.12.2 Signing of plans for NOC
- 3.13 Alteration / Modification / Addition in Plans
  - 3.13.1 Alterations exempted from obtaining building licence
- 3.14 Fees for sanction of Building licence
- 3.15 Sanction
  - 3.15.1 Sanction by the Authority
  - 3.15.2 Sanction by Empanelled Professionals
  - 3.15.3 Grant of Licence or Refusal
  - 3.15.4 Duration of Sanction, Revalidation and revised Sanction

- 3.15.5 Revocation of Licence
- 3.15.6 Qualification and Competence
- 3.16 Execution of works at site
  - 3.16.1 Construction to be in Conformity with Bye-Laws
  - 3.16.2 Commencement of work
  - 3.16.3 Appointment of professionals on record for supervision
  - 3.16.4 Intimation of commencement of work at site
  - 3.16.5 Documents at Site
  - 3.16.6 Preparatory works at site that need not be intimated
  - 3.16.7 Procedure during construction
  - 3.16.8 Inability of Empanelled professional to certify the works and selection of alternate professional
  - 3.16.9 Action against works executed without intimation and works not rectified
  - 3.16.10 Changes to be made in the approved plans, during the execution of works
- 3.17 Completion of project and issuing Completion Certificate:
  - 3.17.1 Issuing completion certificate
  - 3.17.2 Application for approval of works from other departments
- 3.18 Occupancy Certificate
  - 3.18.1 Occupancy or letting of the new buildings
  - 3.18.2 Occupancy/ Part Occupancy Certificate for Phased Project
- 3.19 Connection to the municipal sewer / water mains

#### **4. DEVELOPMENT REGULATIONS**

#### **5. GENERAL BUILDING REQUIREMENTS AND SERVICES**

- 5.1 Requirements for Parts of Buildings
  - 5.1.1 Plinth
  - 5.1.2 Habitable Rooms
    - 5.1.2.1 Height
    - 5.1.2.2
    - 5.1.2.3 Size
    - 5.1.3 Kitchen
      - 5.1.3.1 Height
      - 5.1.3.2 Size
    - 5.1.3.3 Other Requirements
    - 5.1.4 Bathrooms and Water-Closets
      - 5.1.4.1 Height
      - 5.1.4.2 Size
      - 5.1.4.3 Other Requirements
      - 5.1.4.4
      - 5.1.5 Loft
        - 5.1.5.1 Height
        - 5.1.5.2 Size
      - 5.1.6 Mezzanine Floor
        - 5.1.6.1 Height
        - 5.1.6.2 Size
      - 5.1.6.3 Other Requirements
      - 5.1.7 Store Room
        - 5.1.7.1 Height
        - 5.1.7.2 Size
      - 5.1.8 Garage
        - 5.1.8.1 Height
        - 5.1.8.2 Size
      - 5.1.9 Basement
      - 5.1.9.1.
      - 5.1.9.2.
      - 5.1.10 Chimneys
      - 5.1.11 Parapet
      - 5.1.12 Boundary Wall
      - 5.1.13 Septic Tanks
      - 5.1.14 Office-cum-Letter Box Room.

- 5.1.15 Meter Rooms
- 5.1.16 Roofs
- 5.2 Other general requirements
  - 5.2.1 Swimming Pool
  - 5.2.2 Means of access
  - 5.2.3 Staircase Requirements
    - 5.2.3.1.
    - 5.2.3.2 Minimum width
    - 5.2.3.3 Minimum tread
    - 5.2.3.4 Maximum riser
    - 5.2.4 Exit Requirements
      - 5.2.4.1 Occupant Load
      - 5.2.4.2 Number and size of Exits
      - 5.2.4.3 Arrangement of Exits
      - 5.2.4.4 Capacity of Exits
      - 5.2.4.5 Minimum Width Provisions for Passageway/Corridors
    - 5.2.5 Ramps
    - 5.2.6 Doorways
  - 5.2.7 Provision of exterior open spaces and height limitation around the building
  - 5.2.8 Interior Open Space for Light and Ventilation
    - 5.2.8.1.
    - 5.2.8.2 Sunken Courtyard
    - 5.2.8.3 Skylight
    - 5.2.9 Lighting and ventilation of rooms
      - 5.2.9.1 IS codes for lighting & ventilation requirements
      - 5.2.9.1.1 Minimum aggregate area of openings
      - 5.2.9.2 Ventilation Shaft
  - 5.3 Building Services
    - 5.3.1 Electrical, Air conditioning, Lift & Escalator installations
      - 5.3.1.1 Planning, design and installations of electrical, air-conditioning and lift installations
      - 5.3.1.2 Number and types of lifts
      - 5.3.1.3 Requirements of electrical sub -station
    - 5.3.2 Plumbing and Sanitary Services
      - 5.3.2.1 Planning, design, construction and installation of water supply, drainage and sanitation and gas supply system
      - 5.3.2.2 Norms for differently-abled within segregated toilets:
      - 5.3.2.3 Water requirement and facilities:
      - 5.3.2.4 Construction Site
      - 5.3.2.5 Temporary Camp Toilets
      - 5.3.2.6 Special / Contingency Toilets
      - 5.3.2.7 General guidance for water supply arrangements

## **6. PROVISIONS FOR HIGH RISE DEVELOPMENT**

- 6.1 General
- 6.2 Means of access
- 6.3 Parking Spaces
- 6.4 Building components
  - 6.4.1 Doorways
  - 6.4.2 Revolving Doors
  - 6.4.3 Stairways
  - 6.4.4 Lifts
  - 6.4.5 Basements
    - 6.4.5.1 General requirements
    - 6.4.5.2 Requirements for High rise development
  - 6.4.6 Compartmentation
  - 6.4.7 Ramps
  - 6.4.8 Corridors
  - 6.4.9 Glass Façade/ Service Ducts/Shfts/ Refuge Area/ Vents
- 6.5 Building Services
  - 6.5.1 Staircase and Corridor Lighting
  - 6.5.2 Electrical Services

- 6.5.3 Alternate Source of Electric Supply
- 6.5.4 Air-conditioning
- 6.5.5 Transformers
- 6.5.6 Gas supply
- 6.5.7 Boiler Room
- 6.5.8 Helipad
- 6.5.9 Disaster Management / Fire Safety
- 6.5.10 Sustainable Environment and Buildings
- 6.5.11 Structural Safety

## **7. PROVISIONS FOR STRUCTURAL SAFETY**

- 7.1 Structural design and safety
- 7.1.1 Additional provisions for natural hazard prone areas
- 7.1.2 Structural Design Basis Report (SDBR)
- 7.1.3 Seismic strengthening/retrofitting
- 7.1.4 Buildings with Soft Storey
- 7.1.5 Review of structural design
- 7.1.6 Certification regarding structural safety in design
- 7.1.7 Constructional safety
  - 7.1.7.1 Supervision
  - 7.1.7.2 Certification of structural safety in construction
- 7.1.8 Quality control and inspection
  - 7.1.8.1 Inspection
  - 7.1.8.2 Certification of safety in quality of construction
- 7.1.9 Control of signage & outdoor display structures, cell phone towers and telephone Towers.
- 7.2 Inspection
  - 7.2.1 Maintenance of Buildings
  - 7.2.2 Protective Measures in Natural Hazard Prone areas
  - 7.2.3 Registration of Professionals
  - 7.2.4 Professional fees for SER/SDAR and CER/CMAR
  - 7.2.5 Appointment of Professionals
- 7.3 Alternative Materials, Methods of Design and Construction and Tests

## **8. LAND USE ZONES**

## **9. PROVISIONS FOR DIFFERENTLY-ABLED, ELDERLY PERSONS AND CHILDREN**

- 9.1 Applicability
- 9.2 Guidelines and Provisions
- 9.3 Types of buildings to adopt barrier free guidelines as notified by the State Government
  - 9.3.1 Buildings to be designed for Ambulant Disabled People
  - 9.3.2 Buildings to be designed for Non-Ambulant Disabled People
  - 9.3.3 Buildings to be designed for Non-Ambulant People (using small wheel chairs)
  - 9.3.4 Site development
    - 9.3.4.1 Access Path / Walk Way
    - 9.3.4.2 Parking
  - 9.4 Building requirements
  - 9.4.1 Approach to plinth level
  - 9.4.2 Corridor connecting the entrance/ exit for the differently abled
  - 9.5 Stair-ways
  - 9.6 Lifts
  - 9.7 Toilets
    - 9.7.1 Provision of WCs in buildings without lift:
    - 9.7.2 Provisions of WCs in buildings with lift
    - 9.7.3 Toilet Details: For Toilets Designed for Ambulant Disabled
    - 9.7.4 For Toilets Designed for Non-Ambulant Disabled Small Wheel Chair:
    - 9.7.5 For Toilets Designed for Non-Ambulant Disabled Using Large Wheel Chair:
  - 9.8 Designing for Children
  - 9.9 Drinking Water:
  - 9.10 Refuge
  - 9.11 Proper signage
  - 9.12 Public Building regulations

## **10. RAIN WATER HARVESTING**

- 10.1 Rainwater Harvesting principle
- 10.2 Rainwater harvesting techniques:
- 10.3 Harvesting provisions in various Building categories:
- 10.4 Rain Water Harvesting Provisions for Open spaces in cities
- 10.5 Ground Water Recharge
- 10.6 Enforcement and Monitoring

## **11. GREEN BUILDINGS AND SUSTAINABILITY PROVISIONS**

- 11.1 Provisions and Applicability
- 11.2 Provisions for Sanction
- 11.2.1 Provisions for City and Site level greening
- 11.2.2 Water Re-use and Recycling
- 11.2.3 Roof Top Solar Energy Installations
- 11.2.4 Installation of Solar Assisted Water Heating System in Buildings
- 11.2.5 Sustainable Waste Management
- 11.2.6 Sustainability of Building Materials
- 11.3 Various Guidelines for Green Rating systems

## **12. FIRE PROTECTION AND FIRE SAFETY REQUIREMENTS**

- 12.1 Scope
- 12.2 Procedure for obtaining NOC and Clearance Certificate from DFES
- 12.3 Renewal of fire clearance
- 12.4 Fee
- 12.5 Responsibility of providing Fire Protection & Fire Fighting Measures
- 12.6 Terminology
- 12.7 General
  - 12.7.1 Fire Resistance of Types of Constructions / Building Components
  - 12.7.2 MEANS OF ACCESS
  - 12.7.3 EXIT REQUIREMENT
- 12.8 Fire Escapes or External Stairs:
  - 12.8.1 Spiral Stairs
  - 12.8.2 Staircase Enclosures
  - 12.8.3 Ramps
  - 12.9 Provision of lifts
  - 12.9.1 Lift Enclosure/lift
  - 12.9.2 Fire Lift
  - 12.10 Basement
  - 12.10.1 Requirements
  - 12.11 Provision of helipad
  - 12.12 Service ducts/refuge chute
  - 12.13 Electrical services
  - 12.14 Staircase and corridor lights
  - 12.15 Air-conditioning
    - 12.15.1 Air- Conditioning should conform to the following:
    - 12.15.2 Fire Dampers
  - 12.16 Boiler Room
  - 12.17 Alternate source of electric supply
  - 12.18 Safety measures in electric sub-station
  - 12.19 Fire protection requirements
    - 12.19.1 First Aid /Fixed Fire Fighting /Fire Detection Systems and other Facilities
    - 12.19.1.1 Note for Annexure 'B-I' 'B-II' & 'B-III'
    - 12.20 Static water storage tank
    - 12.21 Automatic sprinklers
    - 12.22 Fixed Carbon di-oxide /Foam/DCO water spray extinguishing system
    - 12.23 Fire alarm system
    - 12.24 Control Room
    - 12.25 Fire drills and fire orders
    - 12.26 Material used for construction of building

- 12.27 Liquefied Petroleum Gas (LPG)
- 12.28 House keeping
  - 12.28.1 Good House-Keeping includes the following
  - 12.28.2 Smoking Restrictions
  - 12.28.3 Limiting the Occupant Load in Parking and Other Areas of Basement(s)
- 12.29 Fire prevention
- 12.30 Occupancy restrictions

### **13. CONSERVATION OF HERITAGE SITES INCLUDING HERITAGE BUILDINGS, HERITAGE PRECINCTS AND NATURAL FEATURE AREAS**

- 13.1 Applicability:
- 13.2 Composition of heritage conservation committee:
- 13.3 Procedure for the preparation of list of heritage sites and buildings, heritage precincts listed natural features.
- 13.4 Criteria for listing of Heritage Sites:
- 13.5 Grading of the listed buildings / listed precincts
- 13.6 Restriction on development / re-development / repairs, etc.
- 13.7 Responsibility of the owners of heritage buildings:
- 13.8 Regulations for specified heritage precincts / listed natural features.
- 13.9 Road widening and building lines:
- 13.10 Master plan reservations:
- 13.11 Grant of Transferable Development Rights (TDR) in cases of loss of development rights.
- 13.12 Incentive uses for heritage buildings:
- 13.13 Maintaining skyline and architectural harmony:
- 13.14 Repair fund:
- 13.15 Voluntary contribution and agreement with any voluntary organization, person or Company:

### **14. STREAMLINING OF BUILDING PLAN APPROVALS**

- 14.1 Streamlining the building approval/sanction procedure (Ease of Doing Business)
- 14.2 Clearances at Master Plan level
- 14.3 Risk Based Classification of building proposals
  - 14.3.1 Residential Buildings
  - 14.3.2 Storage/Warehouse Buildings
  - 14.3.3 Industrial Buildings
- 14.4 Other Suggestions to enhance ease of doing business:
  - 14.4.1 'Citizens' Charter
  - 14.4.2 Capacity building
  - 14.4.3 Empowered Committees
  - 14.4.4 Simplification of bye-laws

### **15. CLIMATE RESILIENT CONSTRUCTION – INTEGRATION OF ENVIRONMENTAL CLEARANCE WITH SANCTION**

- 15.1 Environmental conditions for compliance during Building approvals
  - 15.1.1 BUILDINGS CATEGORY '1' (5,000 to < 20,000 Square meters)
  - 15.1.2 BUILDINGS CATEGORY '2' (>20,000 to < 50,000 Square meters)
  - 15.1.3 BUILDINGS CATEGORY '3' (≥ 50,000 to < 1,50,000 Square meters)

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- Table 5.1 Minimum height requirement for educational and industrial buildings
- Table 5.2 The minimum width of staircase
- Table 5.3 Occupant Load
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## CHAPTER - 1

**1. Title, commencement and application-** (1) These bye laws may be called the Karnataka Municipal Corporations Model Building Bye-Laws 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

(3) All mandatory Master Plan or Zonal Regulations regarding use, land use, coverage, FAR, setback or open space, height, number of stories, number of dwelling units, parking standards etc. for various categories of buildings including modification therein made from time to time shall be applicable mutatis mutandis in these Bye-Laws under this clause. All amendments or modifications made in the aforesaid regulations shall automatically stand deemed to have been included as part of these Bye-laws.

## CHAPTER - 2

**2. Definitions**

1. '**Access**' – means a clear approach to a plot or a building.
2. '**Act**'- means the Karnataka Municipal Corporations Act, 1975 (Karnataka Act 14 of 1977);.
3. '**Addition and/or Alteration**'- means a structural change including an addition to the area or change in height or the removal of part of building, or any change to the structure, such as the construction or removal or cutting of any wall or part of a wall, partition, column, beam, joist, floor including a mezzanine floor or other support, or a change to or closing of any required means of access ingress or egress or a change to fixtures or equipment as provided in these Bye laws.
4. '**Agriculture**' includes horticulture, farming, growing of crops, fruits, vegetables, flowers, grass, fodder, trees of any kind or any kind of cultivation of soil, breeding and keeping of livestock including cattle, horses, donkeys, mules, pigs, fish, poultry and bees, the use of land which is ancillary to the farming of land or any purpose aforesaid but shall not include

the use of any land attached to a building for the purpose of garden to be used along with such building; and 'agriculture' shall be construed accordingly.

5. **'Air-conditioning'**- The process of treating air so as to control simultaneously its temperature, humidity, purity, distribution and air movement and pressure to meet the requirements of the conditioned space.
6. **'Amalgamation'** means clubbing of two or more properties as a single property.
7. **'Amenity'** includes roads, street, open spaces, parks, recreational grounds, play grounds, gardens, water supply, electric supply, street lighting, sewerage, drainage, public works and other utilities, services and conveniences.
8. **'Annexure'** means the Annexure appended to these bye-laws;
9. **'Apartment'** means suite of rooms, which are occupied or which is intended or designed to be occupied by one family for living purpose in an Apartment building. This word is synonymous with residential flat.
10. **'Apartment Building/Group Housing'** means one or more buildings, each containing more than four Apartments.
11. **'Appendix'** means Appendix appended to these bye-laws;
12. **'Application'** means an application made in such form as may be prescribed by the Authority from time to time.
13. **'Applicant'** means any person who applies to the Authority with an intention to develop building as per these bye-laws. The Applicant shall be the owner of the property or his authorised representative or a promoter authorised by the owner.
14. **'Approved'** means as approved/sanctioned by the Authority under applicable Bye-Laws
15. **'Architect'**- means a person holding a graduate degree in Bachelor of Architecture from any institute recognized by the Council of Architecture (COA) and has his/her name entered in the register of COA for the time being, with a valid COA Registration number.
16. **'Architect/Professional on record'**- means an architect/Competent professional who is brought on record to represent his/her client for a construction project, to act on their behalf regarding building licenses and process of construction (Qualification, experience &competence as notified by the Government). He / She may be registered with the Authority for the cause (Registration procedure as per **Appendix-I**).
17. **'Auditorium'** means Premises having an enclosed space to seat audience and stage for various performances such as concerts, plays, music etc.
18. **'Authority'**- means the Local Authority which has been created by a statute and which, for the purpose of administering / undertaking the various functions specified in these Byelaws, , may authorize a committee or the Commissioner or any other designated officer of Local Body to act on its behalf; hereinafter called the 'Authority'.
19. **'Balcony'** means a horizontal projection with a handrail or balustrade, to serve as passage or sit out place.
20. **'Basement storey or cellar'** means any storey, which is partly / wholly below the average ground level contiguous to the building, with one or more than one level. The basement height should not project more than 1.2m above the average ground level.
21. **'Bifurcation'** means as defined in the KTCP (Approval of Plot) Rules 2017
22. **'Building'**- means a structure constructed with any materials whatsoever for any purpose, whether used for human habitation or not, and includes: -
  - i) a house, out-house, stable, privy, shed, hut, wall, verandah, fixed platform, plinth, doorstep and any other such structure, whether of masonry, bricks, wood, mud, metal or any other material whatsoever;
  - ii) a structure on wheels simply resting in the ground without foundation;
  - iii) a ship, vessel, boat, tent and any other structure used for human habitation or used for keeping or storing any article or goods;
  - iv) Foundation, plinth, walls, floors, roofs, chimneys, plumbing and building services, fixed platforms etc.
  - v) Verandahs, balconies, cornices, projections etc.
  - vi) Parts of a building or anything affixed thereto
  - vii) Any wall enclosing or intended to enclose any land or space, sign and outdoor display structures; etc.,
  - viii) Tanks constructed or fixed for storage of chemicals or chemicals in liquid form and for storage of water, effluent, swimming pool, ponds etc.,
  - ix) All types of buildings as defined in (a) to (k) below, except tents, shamianas and tarpaulin shelters erected temporarily for temporary purposes and ceremonial occasions, shall be considered to be 'building'.

**Types of Buildings based on use of premises or activity:**

- a. **'Residential Building'**- includes a building in which sleeping and living accommodation is provided for normal residential purposes, with cooking facilities and includes one or more family dwellings, apartments/flats, and private garages of such buildings.
  - b. **'Educational Building'**- Includes a building exclusively used for a school or college, recognized by the appropriate Board or University, or any other Competent Authority involving assembly for instruction, education or recreation incidental to educational use, and including a building for such other uses as research institution. It shall also include quarters for essential staff required to reside in the premises, and building used as a hostel captive to an educational institution whether situated in its campus or outside.
  - c. **'Institutional Building'**- Includes a building constructed by Government, Semi Government Organizations or Registered Trusts and used for medical or other treatment, or for an auditorium or complex for cultural and allied activities or for an hospice, care of persons suffering from physical or mental illness, handicap, disease or infirmity, care of orphans, abandoned women, children and infants, convalescents, destitute or aged persons and for penal or correctional detention with restricted liberty of the inmates ordinarily providing sleeping accommodation and includes dharamshalas, hospitals, sanatoria, custodial and penal institutions such as jails, prisons, mental hospitals, houses of correction, detention and reformatories etc.
  - d. **'Assembly Building'**- means a building or part thereof, where groups of people (not <50) congregate or gather for amusement, recreation, social, religious, patriotic, civil, travel and similar purposes and this includes buildings of drama and cinemas theatres, drive-in theatres, assembly halls, city halls, town halls, auditoria, exhibition halls, museums, 'mangal karyalayas', skating rinks, gymnasiums, restaurants, eating or boarding houses, places of worship, dance halls, clubs, gymkhana and road, railways, air, sea or other public transportation stations and recreation piers.
  - e. **'Business Building'**- Includes any building or part thereof used principally for transaction of business and/or keeping of accounts and records including offices, banks, professional establishments, court houses etc., if their principal function is transaction of business and/or keeping of books and records.
  - f. **'Commercial/Mercantile Building'**- Includes a building or part thereof used as shops, stores or markets for display and sale of wholesale and or retail goods or merchandise, including office, storage and service facilities incidental thereto and located in the same building
  - g. **'Industrial Building'**- Includes a building or part thereof wherein products or material are fabricated, assembled or processed, such as assembly plants, laboratories, power plants, refineries, gas plants, mills, dairies and factories etc.
  - h. **'Storage Building'**- means a building or part thereof used primarily for storage or shelter of goods, wares, merchandise and includes a building used as a warehouse, cold storage, freight depot, transit shed, store house, public garage, hanger, truck terminal, grain elevator, barn and stables.
  - i. **'Hazardous Building'**- Includes a building or part thereof used for
    - i. Storage, handling, manufacture or processing of radioactive substances or highly combustible or explosive materials or of products which are liable to burn with extreme rapidity and/or producing poisonous fumes or explosive emanations. and
    - ii. Storage, handling, manufacture or processing of which involves highly corrosive, toxic or noxious alkalis, acids, or other liquids, gases or chemicals producing flame, fumes and explosive mixtures etc. or which result in division of matter into fine particles capable of spontaneous ignition.
  - j. **'Mixed Land Use Building'**- means a building partly used for non-residential activities and partly for residential purpose.
  - k. **'Wholesale Establishment'**- means an establishment wholly or partly engaged in wholesale trade and manufacture, wholesale outlets, including related storage facilities, warehouses and establishments engaged in truck transport, including truck transport booking agencies.
- Types of building based on design:**
- a. **'Detached Building'**- means a building with walls and roofs independent of any other building and with open spaces on all sides within the same plot.
  - b. **'Semi-detached Building'**- means two buildings, together having not more than 4 dwelling units with a maximum of G+1 floor, attached to each other with a common wall and each building having setbacks only on three sides.

c. '**Row Housing**' – means two or more dwelling units with a maximum of G+1 floor, in a row attached to each other, where the intermediate dwelling units have only front and rear setbacks and the dwelling units on the extreme ends have setbacks on three sides.

**Types of building based on height:**

- a. B1- means residential buildings of G+1 floors upto 4 dwelling units
- b. B2- means all buildings upto G+2 floors other than B1 buildings and Industrial buildings
- c. B3- means all low-rise buildings other than B1 & B2 buildings and Industrial buildings.
- d. B4- means all high-rise buildings (multi storey buildings) other than Industrial buildings.
- e. B5- means all Industrial buildings

**Types of building based on other features:**

a. '**Multi-Level Car parking**'- means a building partly below ground level having two or more basements or above ground level with two or more floors, primarily to be used for parking of cars, scooters or any other type of light motorized vehicle.

b. '**Unsafe Building**'- Includes a building which:

- i) Is structurally unsafe, or
- ii) Is insanitary, or
- iii) Is not provided with adequate means of ingress or egress or
- iv) Constitutes a fire hazard or
- v) Is dangerous to human life or
- vi) In relation to its existing use, constitutes a hazard to safety or health or public welfare by maintenance, dilapidation or abandonment.

Note: All unsafe buildings /structure will require be restoring by repairs, demolition or dealing with as directed by the Authority. The relevant provisions of the Act shall apply for procedure to be followed by the Authority in taking action against such buildings

**23. 'Building line'** means the line upto which the plinth of building may lawfully extend within the plot on a street or an extension of a street and includes the line prescribed, if any in the Master Plan or Town Planning scheme. No portion of the building may extend beyond this line.

**24. 'Building Site'** means a plot held for building purposes, approved as per the rules framed under Section 17 of KTCP Act.

**25. 'Bus Depot'** means a premise used by public transport agency or any other agency for parking, maintenance and repair of buses. These may include the workshop.

**26. 'Bus Terminal'** means a premise used by public transport agency to park the buses for short duration to serve the public. It may include the related facilities for passengers.

**27. 'Canopy'**- shall mean a cantilevered projection from the face of the wall over an entry to the building at the lintel or slab level provided that:

- i) It shall not project beyond the plot line.
- ii) It shall not be lower than 2.3 m. or 7'- 6' when measured from the ground.
- iii) There shall be no structure on it and the top shall remain open to sky

**28. 'Carpet Area'** means the net usable floor area of an apartment or commercial premises, excluding the area covered by the external walls, areas under services shafts, exclusive balcony or verandah area and exclusive open terrace area, but includes the area covered by the internal partition walls of the apartment/ commercial premises.

**29. 'Chajja'** means a continuous sloping or horizontal cantilever projection provided over an opening or external wall to provide protection from sun and rain.

**30. 'Chimney'** means a structure usually vertical containing a passage or flue by which the smoke, gas, etc. of a fire or furnace are carried off by means of which a draught is created

**31. 'Common wall'** means; a wall built on land belonging to two adjoining owners, the wall being the joint property of both owners.

- a) If two adjoining owners build a dividing wall on their property, they are not common walls and no part of the footings of either wall shall project on to the land of the adjoining owner, except by legal agreement between the owners. and
- b) Any such 'common' or 'dividing' wall shall be considered for the purpose of these byelaws, as being equivalent to an external wall as far as the thickness and height are concerned.

**32. 'Community Hall'** means congregational place to be developed by government or local bodies, trust, society, etc., having a maximum of 300m<sup>2</sup> carpet area of hall without separate kitchen and dining. No upper floor shall be permitted.

**33. 'Construction'** means; Any erection of a structure or a building, including any addition or extension thereto either vertically or horizontally, but does not include any repair and

renovation of an existing structure or building, or, construction, maintenance and cleansing of drains and drainage works and of public latrines, urinals and similar conveniences, or, the construction and maintenance of works meant for providing supply of water for public, or, the construction or maintenance, extension, management for supply and distribution of electricity to the public; or provision for similar facilities for publicity.

- 34. 'Conversion of Occupancy'**- means the change from one occupancy to other occupancy or any change in building structure or part thereof resulting in a change of space and use requiring additional occupancy certificate.
- 35. 'Corner Plot'** means a plot facing two or more intersecting streets / roads.
- 36. 'Corridor'** means a common passage or circulation space connecting separate rooms or different parts of the same building including a common entrance hall.
- 37. 'Cornice'**- means a sloping or horizontal structural overhang usually provided over openings or external walls to provide protection from sun and rain.
- 38. 'Courtyard'** means a space permanently open to sky, enclosed fully or partially by buildings and maybe at ground level or any other level either in the interior or exterior of a building within the site.
- 39. 'Cultural buildings'** means a building built by a Trust, Society, Government or Local body for cultural activities.
- 40. 'Damp Proof Course'**- means a course consisting of some appropriate water proofing material provided to prevent penetration of dampness or moisture.
- 41. 'Density of Households'** means number of dwelling units per hectare
- 42. 'Density of Population'** means concentration of population expressed in terms of number of persons per hectare in a particular area.
- 43. 'Development'** with its grammatical variations means the carrying out of building, engineering, mining or other operations in, or over or under land or water, or the making of any material change in any building or land (including compound wall) or in the use of any building or land and includes sub-division of any land.
- 44. 'DR/T.D.R.'** – means Development Rights or Transfer of Development Rights available for plots as prescribed under Section 14B of KTCP Act and the Rules framed thereof.
- 45. 'Drains'** means natural valleys intended for flow of storm water /rain water
- 46. 'Drainage system'** – means a system or a line of pipes, with their fittings and accessories, such as manholes, inspection chambers, traps, gullies, floor traps used for drainage of building or yards appurtenant to the buildings within the same cartilage for conveying surface water or a system for the removal of any waste water.
- 47. 'Duplex'** means a dwelling unit in two levels connected with an internal staircase.
- 48. 'Dwelling'**- means a building or a portion thereof which is designed or used wholly or principally for residential purposes for one family.
- 49. 'Empanelled Professional'** means professionals such as Architects, Engineers, Structural consultants, MEP consultants, Environment consultants etc., who are empanelled by the Authority as per the provisions of these bye-laws as authorised persons to inspect the plots before, during, and after construction, as the case may be, to certify the constructions made as per the provisions of the approved plans and report to the Authority and also to sanction building plans of certain buildings as notified by the government.
- 50. 'Encroachment'**- means an act to enter into the possession or rights either of permanent or temporary nature on a land or built up area of a private property or local body or state/central Government.
- 51. 'Existing development'** means all developments (including buildings) which existed before coming into force of the Karnataka Municipal Corporations Act 1976, and all approved developments thereafter (including building) and which are completed or under development at the time of commencement of these bye-laws.
- 52. 'Existing Use'**- means use of a building or structure existing before the commencement of these Bye-Laws.
- 53. 'Exit'**- means a passage channel or means of egress from the building, its storey or floor to a street or, other open space of safety; whether horizontal, outside and vertical exits meaning as under: -
  - i) Horizontal exit means an exit, which is a protected opening through or around a fire well or bridge connecting two or more buildings.
  - ii) Outside exit mean an exit from building to a public way to an open area leading to a public way or to an enclosed fire-resistant passage leading to a public way, and
  - iii) Vertical exit means an exit used for ascending or descending between two or more levels including stairway, fire towers, ramps and fire escapes.

**54. 'External Wall'** means the outer wall of the building not being a partition wall, even though an adjoining wall of another building and also a wall abutting on an interior open space of any building.

External wall of an apartment or commercial premises means the outer wall of the apartment or commercial premises, even though an adjoining wall of another apartment or commercial premises.

**55. 'First floor'** means the floor immediately above the ground floor or stilt, on which second and other floors follow subsequently

**56. 'Flatted factory'** means premises having group of non-hazardous small industrial units which are permissible under the Zonal Regulations and these units may be located in multi-storied industrial buildings.

**57. 'Floor'** means the lower surface in a storey on which one normally walks in a building

**58. 'Floor Area Ratio (FAR)'** means the quotient of the ratio of the combined gross floor area of all the floors, excepting areas specifically, exempted under the Zonal Regulations, to the total area of the plot. Viz.

Floor Area Ratio =	Total floor area of all the floors. Plot Area
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**59. 'Fire and/or Emergency Alarm System'**- means Fire alarm system comprises of components for manually or automatically detecting a fire, initiating an alarm of fire and initiating other actions as appropriate.

**60. 'Fire Hazard Industries'**-

i) 'Low Fire Hazard Industries' includes engineering industries using/processing or assembling non-combustible materials i.e. lathe machines, steel works, steel components etc.

ii) 'Moderate Fire Hazard Industries' includes industries using / processing combustible materials but not flammable liquid etc., plastic industries, rubber, and PVC industries, textile, paper, furniture, flour mills etc.

iii) 'High Fire Hazard Industries' includes industries using/processing flammable liquids, gases, chemicals petroleum products, plastic or thermo setting group etc.

**61. 'Fire Lift'**- Means a special lift designed for the use of fire service personnel in the event of fire or any other emergency.

**62. 'Fire Proof Door'**- Means a door or shutter fitted to a wall opening, and constructed and erected with the requirement to check the transmission of heat and fire for a period.

**63. 'Fire Pump'**- Means a machine, driven by external power for transmitting energy to fluids by coupling the pump to a suitable engine or motor, which may have varying outputs/capacity but shall be capable of having a pressure of 3.2 kg/ cm<sup>2</sup> at the topmost level of multi-storey or high-rise building.

**64. 'Fire Pump-Booster Fire Pump'**- Means a mechanical/electrical device that boots up the water pressure at the top level of a multi-storey / high-rise building and which is capable of a pressure of 3.2 kg/cm<sup>2</sup> at the nearest point.

**65. 'Fire Resistance'**-means Fire resistance is a property of an element of building construction and is the measure of its ability to satisfy for a stated period some or all of the following criteria:

a. resistance to collapse,

b. resistance to penetration of flame and hot gases, and

c. Resistance to temperature rise on the unexposed face up to a maximum of 180°C and/or average temperature of 150°C.

**66. 'Fire Resistance Rating'**- The time that a material or construction will withstand the standard fire exposure as determined by fire test done in accordance with the standard methods of fire tests of materials or structures.

**67. 'Fire Separation'**- Means the distance in meters measured from any other building on the site or from another site, or from the opposite side of a street or other public space to the building.

**68. 'Fire Service Inlet'**- Means a connection provided at the base of a building for pumping up water through in-built fire-fighting arrangements by fire service pumps in accordance; with the recommendation of the Chief Fire Officer.

**69. 'Fire Tower'**- Means an enclosed staircase that can only be approached from the various floors through landings or lobbies separated from both the floor area and the staircase by fire resistant doors and open to the outer air.

**70. 'Fire Resisting Building'**- means a building in which material, which has, appropriate degree of fire resistance is used.

- 71. 'Footing'**- means a foundation unit constructed in stone masonry or concrete under the base of a wall or column for the purpose of distributing the load over a larger area.
- 72. 'Form'** means a Form appended these bye-laws;
- 73. 'Foundation'** means that part of structure which is below the lowest floor and which provides support for the superstructure and which transmits the load of the superstructure to the bearing strata.
- 74. 'Frontage'** means the width of the site/land abutting the access/public road.
- 75. 'Gallery'**- means an intermediate floor or platform projecting from a wall of an auditorium or a hall providing extra floor area, and or additional seating accommodation and includes the structures provided for seating in stadia.
- 76. 'Garage-Private'**- means a building or a portion thereof designed and used for the parking of vehicle.
- 77. 'Garage-Public'** – means a building or portion thereof, designed other than as a private garage, operated for gain, designed and/or used for repairing, servicing, using, selling or storing or parking motor driven or other vehicles.
- 78. 'Gas Go down'** means premises where LPG cylinders are stored.
- 79. 'Government'** means the Government of Karnataka.
- 80. 'Ground Floor'** means the Floor immediately above the level of the adjoining average ground level on all sides having approach directly from the road or above the basement floor.
- 81. 'Ground Coverage'** means area covered by the building immediately above the ground level contiguous to the building. Covered area does not include the space covered by ramps around the building, roof of basement floor beyond the plinth of the building projecting above the ground level, structures for services permitted in the setback area, garden, rocky area, well and well structures, plant, nursery, water pool, swimming pool (if uncovered) platform around a tree, tank, fountain, bench with open top and unenclosed sides by walls cut outs and ducts which are open to sky and the like drainage, culvert, conduit, catch-pit, gully-pit, chamber gutter and the like, within the site, compound or boundary wall, gate, unstoreyed porch and portico, chejja, slide, swing, uncovered staircase, watchman booth, pump house and the like within the site.  
Ground Coverage in hilly areas shall be as prescribed in the Zonal Regulations.
- 82. 'Habitable Room'** means a room occupied or designed for occupancy by one or more persons for study, living, sleeping, Eating, cooking but does not include bathrooms water closet compartments, laundries serving and storage pantries, corridors, cellars, and spaces that are not used frequently or during extended periods.
- 83. 'Head room'** means the clear space between the finished floor level and ceiling/ beam bottom. Minimum headroom shall be 2.4m.
- 84. 'Heritage building'** means a building possessing architectural aesthetic, historic cultural values, which are declared as heritage building by the competent authority or government within whose jurisdiction such building is situated.
- 85. 'Heritage Precinct'** means an area comprising heritage building or buildings and precincts there of or related places which is declared as such by the competent authority or government within whose jurisdiction such building is situated
- 86. 'High-rise Building'** means a building having height of 15 m and above.
- 87. 'Height of Building'** means the vertical distance measured from the average level of the ground around and contiguous to the building to the top of the roof in case of flat roofs and in the case of sloped roofs up to the point where the external surface of the outer wall intersects a finished surface of the sloping roof at the eave level  
**In hilly areas**, if the average level of the ground around and contiguous to the building is below the road level (road for which FAR is considered), then the height of the building shall be measured from such road level and not from the average ground level. The formed level made by filling of natural ground, if considered for the height of the building, shall not be more than 2.0m. above the road level.
- 88. Hospital:** means a premise providing medical facilities of general or specialized nature for treatment of in-patient and out-patients.
- 89. Hotel:** means Premises used for lodging with payment, with or without boarding facilities.
- 90. 'Illuminated Exit Signs'**- means a device for indicating the means of escape during normal circumstances and power failure.
- 91. 'Land use'** includes the purpose to which the site or part of the site or the building or part of the building is in use or permitted to be used by the Authority. Land use includes zoning of land use as stipulated in the Master Plan and the Zonal Regulations.
- 92. 'Licence'** means a valid permission or authorization in writing by the Authority to carryout development of building or a work regulated by these Bye- Laws.

- 93. 'Licensed Professional'** means Qualified professionals who have been registered with the Urban Local Body as per the Qualification and competence notified by the Government and therefore possess the license to provide professional services in Building construction. Only licensed professionals would be allowed to be professionals on record.
- 94. 'Lift'** means an appliance designed to transport persons or materials between two or more levels in a vertical or substantially vertical direction by means of a guided car platform. The word 'elevator' is also synonymously used for 'lift'.
- 95. 'Lobby'**- means a covered space in which all the adjoining rooms open.
- 96. 'Lodging House'** means a premise used for lodging on payment. This is synonymous to Hotel
- 97. 'Loft'** means a residual space above normal floor level which may be constructed or adopted for storage purposes.
- 98. 'Market value'** means the guideline value of the land notified under section 45B of the Karnataka Stamp Act, 1957
- 99. 'Master Plan'** means Master Plan prepared for the local planning area approved by the government under the Karnataka Town and Country Planning Act, 1961.
- 100. 'Means of Escape'**- means an escape route provided in a building for safe evacuation of occupants.
- 101. 'Mezzanine Floor'**- means an intermediate floor between Ground floor and First floor only, with area of mezzanine floor restricted to one third of the area of that floor and with a minimum height of 2.20m. Mezzanine floor is permitted for non-residential uses only. Such Mezzanine floor shall be accessible only from the Ground floor.
- 102. 'Multilevel Car Parking (MLCP)'** means multilevel structure used for car parking connected to all floors by means of ramps / mechanical elevators. MLCP can be an independent structure or part of a building with other land uses. However, in the portion used for parking, no other land uses shall be permitted.
- 103. 'Multiplex complex'** means a building housing an entertainment and cultural centre including cinema theatres, restaurants, food courts and shops as defined in Karnataka Cinema Regulations Act 1964. The development of such buildings shall be governed as per the provisions of Karnataka Cinema Regulations Act 1964.
- 104. 'MCB/ELCB'** means Devices for tripping of electrical circuits in event of any fault in the circuit or installation.
- 105. 'Non-Combustible Material'**- means a material which is not liable to burn or add heat to a fire when tested for combustibility in accordance with the latest code of Bureau of Indian Standards Method of Test for combustibility of Building Materials.
- 106. 'Nursing home** means A premises having medical facility for in-patients and out patients, having up to 30 beds, it shall be managed by a doctor or a group of doctors
- 107. 'Occupancy or use'**-means the principal occupancy or use for which a building or a part of a building is intended to be used. For the purposes of classification of a building according to occupancy, occupancy shall be deemed to include the subsidiary occupancies which are contingent upon it.
- 'Mixed occupancy'** buildings being those in which more than one occupancy is present in different portions of the buildings.
- 108. 'Open space in a plot'** means an area forming an integral part of the plot, left open to sky.
- 109. 'Owner'** means a person who for the time being is receiving or is entitled to receive, whether on his own account or as agent, trustee, guardian, manager or receiver for another person or for any religious or charitable purpose, the rent or profit of the property in connection with which the word is used and in whose name the approval for development is issued.
- 110. 'Parapet'** means a low wall or railing built along the edge of a roof or a balcony.
- 111. 'Parking space'** means an area enclosed or unenclosed, covered or open sufficient in size to park vehicles together with a drive-way connecting the parking space with a public street or any public area and permitting the ingress and egress of the vehicles.
- 112. 'Partition'** means an interior non-load bearing barrier, one storey or part-storey in height.
- 113. 'Partition Wall'** includes (i)A wall forming part of a building and being used or constructed to be used in any part of the height or length of such wall for separation of adjoining buildings belonging to different owners or constructed or adopted to be occupied by different persons; or ii) A wall forming part of a building and standing in any part of the length of such wall, to a greater extent than the projection of the footing on one side or ground of different owners.

- 114.** ‘**Plinth**’ means the portion of a structure between the surface of the surrounding ground and surface of the floor immediately above the ground.
- 115.** ‘**Plinth Area**’ means the built up covered area measured at the floor level of the basement or of any storey including balconies but excluding ducts/ services and lift shaft ( except in the lowermost floor of lift shaft) and open cutout areas.
- 116.** ‘**Plinth Level**’ means the level of the floor of a building immediately above the surrounding ground.
- 117.** ‘**Plot / Site**’ means a parcel of land enclosed by definite boundaries having a means of access.
- 118.** ‘**Porch or Portico**’ means a roof cover supported on pillars or cantilevered projection for the purpose of pedestrian or vehicular approach to a building without any structure above.
- 119.** ‘**Premium F.A.R.**’ means the FAR over and above the permissible FAR allowed, on collection of additional fee as prescribed in the Zoning Regulations.
- 120.** ‘**Prohibited area**’ means any area specified or declared to be a prohibited area under section 20A of the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 121.** ‘**Promoter**’ means –
- (i) A person who constructs or causes to be constructed an independent building or a building consisting of Apartments, or converts an existing building or a part thereof into Apartments, for the purpose of selling all or some of the Apartments to other persons and includes his assignees; or
  - (ii) A person who develops land into a project, whether or not the person also constructs structures on any of the plots, for the purpose of selling to other persons all or some of the plots in the said project, whether with or without structures thereon; or
  - (iii) Any development Authority or any other Public body in respect of Allottees of –
    - a. Buildings or Apartments, as the case may be, constructed by such Authority or body on lands owned by them or placed at their disposal by the Government; or
    - b. plots owned by such Authority or body or placed at their disposal by the Government; for the purpose of selling all or some of the Apartments or plots, or
  - (iv) An Apex State level co-operative housing finance society and a primary co-operative housing society which constructs Apartments or buildings for its members or in respect of the Allottees of such Apartments or buildings; or
  - (v) Any other persons who acts himself as a builder, coloniser, contractor, developer, estate developer or by any other name or claims to be acting as the holder of a power of attorney from the owner of the land on which the building or apartment is constructed or plot is developed for sale; or
  - (vi) such other person who constructs any building or apartment for sale to the general public
- Explanation** – For the purpose of this clause, where the person who constructs or converts a building into apartments or develops a plot for sale and the persons who sells apartments or plots are different persons, both of them shall be deemed to be the promoters and shall be jointly liable as such for the functions and responsibilities specified, under this Act or the rules and regulations made there under;
- For the purpose of this clause, Apartment, whether called block, chamber, dwelling unit, flat, office, showroom, shop, go down, premises, suit, tenement, unit or by any other name, means a separate and self-contained part or an immovable property, including one or more rooms or enclosed spaces, located on one or more floors or any part thereof, in a building or on a plot of land, used or intended to be used for any residential or commercial use such as residence, office, shop, showroom or go down or for carrying on any business, occupation, profession or trade or for any other type of use ancillary to the purpose specified;
- This is synonymous to Developer.
- 122.** ‘**Protected monument**’ means an ancient monument which is declared to be of national importance by or under the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 123.** ‘**Public and semi-public building**’ means a building used or intended to be used either ordinarily or occasionally by the public such as offices of state or central government or local authorities, law courts, jails, Police Station, a church, temple, chapel, mosque or any place of public worship, Educational, cultural and religious institutions, medical and health institutions, cultural institutions like theatres, opera houses etc., of a predominantly non-commercial nature.

- 124.**     ‘**Pump room**’ means the room provided below ground level adjacent to the sump tank to house various types of pumps with self-priming mechanism. However, the entrance shaft of the pump room of maximum 2 m x 2 m may be permitted above the ground level.
- 125.**     ‘**Recreational Club**’ means a premise used for assembly of a group of persons for social and recreational purposes with all related facilities.
- 126.**     ‘**Regulated area**’ means any area specified or declared under section 20B under the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 127.**     ‘**Repair Shop**’ means a premise similar to retail shop for carrying out repair of household goods, electronic gadgets, automobiles, cycles etc.,
- 128.**     ‘**Restaurant**’ means a premise used for serving food items on commercial basis including cooking facilities, with covered or open space or both having seating facilities.
- 129.**     ‘**Retail Shop**’ means a premise for sale of commodities directly to the consumer with necessary storage.
- 130.**     ‘**Retention Activity**’ means an activity or use which is allowed to continue, notwithstanding its non-conforming nature in relation to the use permitted in the adjoining or surrounding area.
- 131.**     ‘**Road/Street**’ means any street, road, square, Court, alley, passage or riding path over which the public have a right of way and includes: -  
 (a) The roadway over any public bridge or causeway;  
 (b) The footway attached to any such street, public bridge or causeway; and  
 (c) The drains attached to any such street, public bridge or causeway and the land, whether covered or not by any pavement verandah or other structure which lies on either side of the roadway up to the boundaries of the adjacent property, whether that property is private property or property belonging to the Government or the Corporation.
- 132.**     ‘**Road/Street Level or Grade**’ means the officially established elevation or grade of the centerline of street upon which a plot fronts, and if there is no officially established grade, the existing elevation or grade of street at its mid-point, at the center of the plot.
- 133.**     ‘**Road/Street Line**’ means the line defining the side limits of a road/street, where existing road width is considered and the road widening line where proposed road width is considered.
- 134.**     ‘**Road Width or Width of Road/Street**’ means the right of way/distance between the boundaries of the property on either side of the road including, carriageway, footways, service road at same level or at different level and storm water drains as laid down in the city survey or Master Plan or the prescribed road lines by any act of law and measured at right angles to the course or intended course of direction of such road.
- 135.**     ‘**Room Height**’ means the vertical distance measured from the finished floor surface to the finished ceiling surface. Where a finished ceiling is not provided, the underside of the joists or beams or tie beams shall determine the upper point of measurement.
- 136.**     ‘**Service Apartments**’ means fully furnished room or suite or rooms with kitchen, which is intended to be used on rental basis.
- 137.**     ‘**Service Road**’ means a road / lane provided adjacent to a plot for access or service purposes as the case may be and shall be parallel to the main road and may or may not be at grade with the main road and shall be partly or fully falling within the proposed road width of the main road.
- 138.**     ‘**Setback**’ means the distance prescribed under the Zonal Regulations of respective LPAs between the plot boundary and the plinth of the building or the covered Cantilever projection of the building in any floor. If cantilever projection of the building is proposed, the prescribed setback shall be provided between the plot boundary and such covered cantilever projection.
- 139.**     ‘**Set-back Line**’ means a line drawn at the setback distance, parallel to the plot boundaries or road widening line as prescribed in the Master Plan / Zonal Regulations, or as decided by the Authority (only road widening line), beyond which nothing can be constructed towards the plot boundaries except as prescribed in the Zonal Regulations.
- 140.**     ‘**Site Plan**’ means a detailed Plan showing the proposed placement of structures, parking areas, open space, landscaping, and other development features, on the plot as required by specific sections of these Bye laws.
- 141.**     ‘**Spiral Staircase**’ means a staircase forming continuous winding curve round a central point or axis provided in an open space having tread without risers.
- 142.**     ‘**Staircase room**’ means a room accommodating the stair and for purpose of providing protection from weather and not used for human habitation.

- 143.** ‘**Stair Cover**’ means a structure with a covering roof over a staircase and its landing built to enclose only the stairs for the purpose of providing protection from weather and not used for human habitation.
- 144.** ‘**Stilt floor**’ means open parking area provided at ground level. The height of the stilt floor shall be a minimum of 2.4 m. & maximum of 2.7m height (floor to beam bottom or ceiling whichever is less). The height shall be considered for calculating the total height of the building. In case of mechanical or multi-level parking the maximum height of the stilt floor shall be 3.75m.
- 145.** ‘**Storey**’ means the space between the surface of one floor and the surface of the other floor vertically above or below. The minimum floor to floor height shall not be less than 2.9m.
- 146.** ‘**To Erect**’- in relation to a building means:
- i) To erect a new building on any plot whether previously built upon or not;
  - ii) To re-erect any building of which portions above the plinth level have been pulled down, burnt or dismantled.
- 147.** ‘**Un-authorised Development**’- means the erection or re-erection, addition or alterations which is not approved or sanctioned by the Competent Authority or as defined under Section 76 FF of KTCP Act.
- 148.** ‘**Underground/Overhead Tank**’ means an installation constructed or placed for storage of water.
- 149.** ‘**Utility Area**’ means a covered area with at least one side open to the outside with the exception of 1m high parapet on the upper floors to be provided on the open side.
- 150.** ‘**Ventilation**’- means Supply of outside air into, or the removal of inside air from an enclosed space.
  - a. **Natural Ventilation** – means Supply of outside air into a building through window or other openings due to wind outside and convection effects arising from temperature or vapor pressure differences (or both) between inside and outside of the building.
  - b. **Positive Ventilation** – means the supply of outside air by means of a mechanical device, such as a fan,
  - c. **Mechanical Ventilation** – means supply of outside air either by positive ventilation or by infiltration by reduction of pressure inside due to exhaust of air, or by a combination of positive ventilation and exhaust of air.
- 151.** ‘**Water Closet (W.C)**’- means a water flushed plumbing fixture designed to receive human excrement directly from the user of the fixture. The term is used sometimes to designate the room or compartment in which the fixture is placed.
- 152.** ‘**Window**’- means an opening to the outside other than a door, which provides all or part of the required natural light or ventilation or both to an interior space and not used as a means of egress/ingress.
- 153.** ‘**Zonal Regulations**’ means the regulations of the Master Plan governing land use and developments.

### **CHAPTER - 3**

## **3. JURISDICTION AND APPLICABILITY AND PROCEDURAL REQUIREMENTS FOR OBTAINING BUILDING LICENCE**

### **3.1 Jurisdiction of Building Bye Laws**

These Building Bye-Laws shall apply to the building activity in the State for all Corporation Cities.

### **3.2 Applicability of Building Bye Laws**

These building byelaws shall be applicable to all building activities undertaken by private or Government agencies and read in conjunction with the Master plan /Metropolitan development plan or any other statutory plan in force, if any, and notifications, if any, with regard to the same and as amended from time to time and these building bye-laws may be reviewed after five years. Till such time the reviewed building byelaws are notified, these building byelaws will continue to be in force.

### **3.3 Applicability of Bye-Laws for all types of building developments**

Except hereinafter or otherwise provided, these Bye-Laws shall apply to all development, redevelopment, erection and/or re-erection of a building whether temporary or permanent as well as to the design, construction of, or reconstruction and additions and alterations to a building.

### **3.4 Applicability of Bye-Laws for Part construction**

Where the whole or part of a building is demolished or altered or reconstructed, except where otherwise specifically stipulated, these Building Bye-Laws shall apply only to the extent of the work involved.

### **3.5 Change of use or occupancy**

Where use of a building is changed, except where otherwise specifically stipulated, these Building Bye-Laws shall apply to all parts of the building affected by the change.

## **3.6 Requirement in respect of building sites**

### **3.6.1 Damp Sites**

Wherever the dampness of a site or the nature of the soil renders such precautions necessary, the ground surface of the site between the walls of any building erected thereon shall be rendered damp-proof to the satisfaction of the Authority.

### **3.6.2 Minimum Size of Site**

The minimum size of sites for the construction of different types of building or different use groups shall be in accordance with provisions of the Master Plan, Zonal Regulations and the Rules framed under Section 17 of KTCP Act 1961.

### **3.6.3 Sanction for Building Sites**

The Building sites which are not located in the approved layouts of the Competent Authority shall have sanction under section 17 of the KTCP Act, 1961, from the Planning Authority before sanction is accorded under these Bye-laws in such sites.

### **3.6.4 Restrictions on use of land for construction of buildings**

No piece of land shall be used as a site for the construction of buildings under the following circumstances:

- a) if the site is not drained properly or is incapable of being well drained;
- b) if the Authority considers that the site is insanitary or it is dangerous to construct a building on it;
- c) if the building is proposed on any area filled up with filthy and offensive matter without a certificate from the Health Officer and Corporation Engineer to the effect that it is fit to be built upon from health and sanitary point of view;
- d) if the owner of the building has not shown to the satisfaction of the Authority that all the measures required to safeguard the construction from constantly getting damp are being taken;
- e) if the building is for an office or public building including school, theatre or assembly on a site which has not been previously approved by the Authority;
- f) if it violates any provisions of and Zonal Regulations and
- g) if the plot is a revenue site for which permission under the Karnataka Land Revenue Act, 1964 is not obtained under section 95 thereof.

**Note:** If the proposed use of the building on the plot does not conform to the land use proposals of the Master plan or Zonal Regulations, permission from the Planning Authority for the change of land use has to be furnished.

## **3.7 Reconstruction**

The reconstruction in whole or part of a building which has ceased to operate due to fire, natural collapse or demolition having been declared unsafe, or which is likely to be demolished by or under an order of the Authority as the case may be and for which the necessary certificate has been given by the Authority.

## **3.8 Existing approved building**

Nothing in these Bye-Laws shall require the removal, alteration or abandonment nor prevent continuance of the lawfully established use or occupancy of an existing approved building unless, in the opinion of the Authority such a building is unsafe or constitutes a hazard to the safety of adjacent property or to the occupants of the building itself.

### **3.9 Development of Buildings**

#### **3.9.1 Building Licence:**

No person shall erect, re-erect or make addition/ alterations in any building or cause the same to be done without, first obtaining a separate building license for each such building from the Authority.

#### **3.9.2 Building Licence obtained before these bye-laws:**

Where any building licence which has been issued by the Authority before the commencement of these Building Bye-Laws and where construction is in progress and has not been completed within the specified period from the date of such licence, the said permission shall be deemed to be sanctioned under these Bye-Laws and shall only be eligible for revalidation there under. Accordingly, where the validity of sanction has expired and construction has not commenced, construction shall be governed by the provisions of these Building Bye-Laws.

### **3.10 Procedure for obtaining building licence**

#### **3.10.1 Registration of Stake Holders**

The following Stake Holders involved in the development activities in the ULB shall register themselves with the Authority, as per the procedure prescribed in **Appendix-I**

- a. Promoters/ Developers who intend to undertake developments within the jurisdiction of the Authority.
- b. Land owners who intend to undertake any building activity as per these bye-laws
- c. Professionals for preparing plans and details for obtaining sanction from the Authority (as detailed in **Appendix-II**) and NOCs from different departments (as detailed in **Appendix-IV**), referred as professionals for drawings.
- d. Professionals who intend to supervise the implementation of various components specified in the plans sanctioned by the Authority, referred as professionals for supervision.
- e. Professionals who are empanelled by the Authority (as detailed in **Appendix-I**) to certify the constructions / implementations as per the provisions of the approved plans and also to sanction building plans as notified by the Government. and
- f. Contractors or Agencies implementing major components of the developments.

#### **3.10.2 Application for building plan approval:**

Every person (Owner or his authorised representative, including Promoter / Developer ) who intends to erect, re-erect or make alteration in any place in a building or demolish any building, shall apply in **Form-I** along with the required documents (as detailed in **Appendix-VI**) and payment of necessary fees (as detailed in **Appendix-VII**) along with all the drawings and details for obtaining building licence prepared by the professionals on record to prepare plans and details for obtaining licence from the Authority (as detailed in **Appendix-II**) and obtaining NOCs from other departments as applicable (as detailed in **Appendix-IV**). The Applicant shall also submit the application in **Form-II**, as applicable, for obtaining the required NOCs, along with payment of necessary fees.

#### **3.10.3 Verification of documents submitted:**

The CEO of the Authority shall verify the documents submitted along with the application and if found in order, will accept the application. In case of any discrepancy, an endorsement shall be issued in **Form III** to the applicant stating the discrepancy and the applicant may rectify the same and resubmit to the Authority.

#### **3.10.4 Evaluation of Technical details submitted:**

(1) If the application is accepted after finding that the documents submitted along with the application are in order, the TPO of the Authority or the empanelled professional or the designated officer notified by the Government shall evaluate the Technical drawing and details submitted by the Applicant, for compliance with the provisions of the Master plan, ZR and Bye-laws and compliance of the conditions incorporated for obtaining NOCs from different departments and submit the evaluation report to the CEO of the Authority, with noting of discrepancy, if any. The CEO shall approve the evaluation report with or without accepting the noting of discrepancy.

(2)In case the noting of discrepancy is accepted by the CEO, an endorsement shall be issued in **Form IV** to the applicant stating the discrepancy and the concerned professionals on record for drawings may rectify the same and resubmit to the Authority.

### **3.10.5 Forwarding details to obtain NOCs and issuing NOCs:**

(1) If the Technical drawing and details submitted are complying with the provisions of the Master Plan, ZR and Bye-laws and the requirements for obtaining NOCs from different departments, the CEO of the Authority shall forward the application, technical drawings and details submitted for NOCs to the concerned departments stating the timelines within which the NOCs have to be issued, (as detailed in **Appendix-VIII**), failing which the NOCs would be deemed to have been issued.

(2)All the respective departments shall verify the drawing and details submitted along with the application of the NOC and if found in order shall issue NOC within the time lines specified in **Appendix-VIII**, with or without site inspection, as required and forward the NOC to the Authority.

(3)In case of any discrepancy, the concerned department shall issue endorsement to the applicant stating the discrepancy and the concerned professionals on record for preparing the plans for NOC may rectify the same and resubmit to the concerned Department.

### **3.10.6 Submission of Site Inspection Report**

(1)If the Technical drawings and details submitted are accepted by the CEO, CEO of the Authority shall select the Empanelled professional (based on the qualification and competence notified by the Government and the procedure specified in **Appendix-V**) and inform the Empanelled professional in **Form-V** to inspect the site and submit Site Inspection Report for approval of site plan.

(2)On receipt of intimation from the Authority, the selected Empanelled professional shall inspect the site and submit site inspection report (as detailed in **Appendix-IX**) in **Form-VI** to the Authority, with noting of discrepancy, if any. The CEO of the Authority shall approve the site inspection report.

### **3.10.7 Action in case of discrepancy in site inspection report.**

If the noting of discrepancy in the Site Inspection Report submitted by the Empanelled professional, is accepted by the CEO, an endorsement in **Form-VII** to the applicant stating the discrepancy and the concerned professionals on record for drawings may rectify the same and resubmit to the Authority. The TPO of the Authority shall verify the resubmitted drawings and details for compliance of the noting of discrepancy accepted by the CEO and forward the same to the CEO and the CEO shall accept the same.

### **3.10.8 Sanctioning of Building Licence**

(1)On receipt of all the required NOCs from the concerned departments, or deemed NOCs issued by the Authority (in case NOCs are not issued by the concerned departments within the timelines specified in **Appendix-VIII**) and all the technical drawings and details accepted by the Authority and the Site Inspection Report being consistent with the details submitted by the applicant, the CEO of the Authority shall sanction the Building Licence within the timelines specified in **Appendix-VIII**.

(2)The Authority shall intimate the Applicant to pay the required fees (as specified in **Appendix-VII** for the various NOCs as well as the Building Licence.

(3) The CEO of the Authority shall issue the various NOCs received from the concerned departments and sanction building licence after receiving the required fees from the Applicant.

### **3.11 Plans for Sanction**

All Building plans submitted to the authority shall be prepared as per the Jurisdictional Master Plan, Zonal Regulations and Building Bye-laws.

**3.11.1 Key Plan:**

The key plan to be submitted along with the application shall be the related portion of the approved road map of the Authority on which the plot (on which Building sanction is applied for) is located (As detailed in **Appendix-IIA**).

**3.11.2 Site Plan:** (As detailed in **Appendix-II B**)

**3.11.3 Floor Plan of parking areas** (As detailed in **Appendix-II C**)

**3.11.4 Floor Plan of other uses** (As detailed in **Appendix-II D**)

**3.11.5 Sections of buildings** (As detailed in **Appendix-II E**)

**3.11.6 Elevations of buildings** (As detailed in **Appendix-II F**)

**3.11.7 Drawings for all services provided**

- a) Electrical system including energy saving measures and use of renewable energy (As detailed in **Appendix II-Ga**)
- b) Water supply system including water conservation measures (As detailed in **Appendix II-Gb**)
- c) Rain water harvesting and ground water recharging systems (As detailed in **Appendix II-Gc**)
- d) Sewerage system including STP and usage of treated water (As detailed in **Appendix II-Gd**)
- e) HVAC System (As detailed in **Appendix II-Ge**)

**3.11.8 Landscape plan**(As detailed in **Appendix-II-H**)

**3.11.9 Circulation Plan indicating vehicular and pedestrian movement and parking facilities including traffic impact study and report** (As detailed in **Appendix-II-I**)

**3.11.10 Structural Drawings and details** (As detailed in **Appendix-II-J**)

**3.11.11 Green Building drawings and details** (As detailed in **Appendix-II-K**)

**3.12 Signing of plans**

**3.12.1 Signing the Building Plans:**

All plans for submission to the Authority shall be signed by the owner(s) and by the competent professionals on record (to prepare the required plans for sanction) for the building.

**3.12.2 Signing of plans for NOC:**

All plans for submission to different departments for NOC, shall be signed by the owner(s) and by the Competent professionals on record (to prepare the required plans for NOCs) for the construction project.

**3.13 Alteration / Modification / Addition in Plans**

The concerned professional on record for preparing the particular plan which has to be altered, modified or added, shall make the necessary changes and submit to the Authority with joint validation of applicant along with an application in **Form-I** and payment of required fees.

**3.13.1 Alterations exempted from obtaining building licence**

No building licence is necessary for the following alterations, which do not otherwise violate any provisions regarding general building requirements, structural stability and fire safety requirements of these Bye-Laws;

- a) Plastering and patch repairs;
- b) Re-roofing or renewals of roof including roof of intermediate floors at the same height;
- c) Flooring and re-flooring;
- d) Opening and closing of windows, ventilators and doors not opening towards other properties and / or public road/property;
- e) Replacing fallen bricks, stones, pillars, beams etc.

- f) Construction or re-construction of sunshade not more than 75cm in width within one's land and not overhanging over a public street;
- g) Construction or re-construction of parapet not more than 1.5 m. in height and also construction or re-construction of boundary wall as permissible under these Bye-Laws;
- h) White-washing, painting, etc. including erection of false ceiling in any floor at the permissible clear height provided the false ceiling in no way can be put to use as a loft etc.;
- i) Reconstruction of portions of buildings damaged by storm, rains, fire, earthquake or any other natural calamity to the same extent and specification as existed prior to the damage provided the use conforms to provisions of Master Plan/Zonal Regulations;
- j) Erection or re-erection of internal partitions provided the same are within the purview of the Bye-Laws.

### **3.14 Fees for sanction of Building licence**

Every person intending to construct or reconstruct or alter any building shall pay to the Authority fund, the various fees prescribed in **Appendix-VII**. The Authority or the Government shall prescribe the rate of fees, time to time.

### **3.15 Sanction**

#### **3.15.1 Sanction by the Authority**

The Authority shall sanction the building plan by signing the Building Licence in **Form-VIII** and the drawings.

#### **3.15.2 Sanction by Empanelled Professionals:**

Competent Professionals empanelled with the Authority, shall be authorized to issue building licence as notified by the Government.

#### **3.15.3 Grant of Licence or Refusal**

- a) The Authority shall either sanction or refuse sanction to the plans and specifications or may sanction them with such modification or directions as it may deem necessary as per these Byelaws.
- b) In case where the building scheme requires the clearance of an Urban Art Commission, if constituted for the city then the Authority shall issue the building license only after getting the clearance from the Urban Art Commission.
- c) The licence shall be issued by the Authority for the different types of buildings within the timelines prescribed in **Appendix-VIII**, failing which the sanction shall be deemed to have been accorded, provided that the failure to sanction the licence by the Authority within the timelines is immediately brought to the notice of the Authority in writing by the person who has applied for licence. Nothing shall be construed to authorize any person to do anything in contravention or against the terms of the lease or title of the land or against any regulations, Bye-Laws or ordinance operating at the time of execution of the work at site.
- d) It is further clarified that:
  - i) The above provision of deemed sanction shall be applicable only in those cases where the building plan are in conformity with the Master Plan/Zonal Regulations/Bye-laws.
  - ii) No application under **Clause 3.10.2** shall be valid unless the information required by the Authority under these Bye-Laws or any further information which may be required has been furnished to the satisfaction of the Authority. and
  - iii) The Owner/ Competent Professional on record (for drawings and supervision) and the Empanelled professionals certifying the works at site shall be fully responsible for any violation of Master Plan/Zonal Regulations/ Building Bye-Laws, etc. In case of any default they shall be liable for action as per the provisions of Rules framed under Section 73 and Section 76 FFF of KTCP Act, 1961. Any construction so raised shall be liable for action as per the provisions of Rules framed under Section 76 F of KTCP Act, 1961.

#### **3.15.4 Duration of Sanction, Revalidation and revised Sanction**

Once a building license is sanctioned, it shall remain valid for a period of two years from the date of sanction for residential, industrial and commercial buildings for commencement of work at site.

The project shall be completed within the timelines prescribed in **Appendix-VIII**. The validity period of sanction shall be extended as specified in **Appendix-X** in case of additions / alterations proposed in the project. If multiple blocks / buildings are proposed in the sanctioned

plan, a schedule of executing the blocks in sequence has to be specified and the validity of sanction shall be extended accordingly as specified in **Appendix-X**.

If the Applicant intends to avail extension for the validity period of the sanction, he shall make an application stating the reason for not completing the project within the validity period and the validity of sanction shall be extended for the requested period after paying the revalidation fees prescribed in **Appendix-VII**.

Revalidation shall not be permitted if the construction has not commenced within the validation period of two years from the date of sanction. In such cases the Applicant has to apply for revised sanction as per the Master Plan / Zonal Regulation and Building Bye-laws as in force at the time of application of revised sanction.

### **3.15.5 Revocation of Licence:**

The Authority shall revoke any building licence issued under the provisions of these Bye-Laws, wherever there has been any false statement, misrepresentation of material facts in the application on which the building licence was based or if during construction it is found that the Owner has violated any of the provisions of these Building Bye-Laws or sanctioned plan or compoundable limits. Fresh sanction of building plans and occupancy certificate shall be taken from the Authority after bringing the building within the framework of Master Plan/ Zonal Regulations/Building Bye-Laws.

### **3.15.6 Qualification and Competence**

Qualification and competence of all professionals registered for preparing the various plans / drawings and details for Sanction and NOC, to supervise the execution of the various components of different types of projects and the professionals empanelled by the Authority to certify the various components of the building executed at site and to sanction licence for buildings shall be as notified by the government.

## **3.16 Execution of works at site**

### **3.16.1 Construction to be in Conformity with Bye-Laws**

**Owners' liability:** Neither the granting of the permission nor the approval of the drawing and specification, nor inspection by the Authority or the empanelled professional during erection of the building shall in any way relieve the Owner of the building or the promoter on behalf of the owner, from full responsibility for carrying out work in accordance with these Bye-Laws.

### **3.16.2 Commencement of work:**

The owner, within the validity period of the building plan sanction given, shall start the construction work at the site for which building license has been granted under the supervision of the professionals on record as per the competence given notified by the Government. The owner and the professionals on record for supervising the works at site shall be required to follow the procedure during construction work as prescribed in these bye-laws.

### **3.16.3 Appointment of professionals on record for supervision**

The owner, to whom a licence is issued, shall appoint the required number of professionals on record as notified by the Government, to supervise the construction of the various components of the building, before the commencement of works at site and also specify the principal professional on record for supervision of works who shall issue the completion certificate.

### **3.16.4 Intimation of commencement of work at site**

(1)The applicant and the principal professional on record for supervising the works executed at site (and in the absence of appointment of such professional on record, the professional on record for preparing the Architectural drawings for sanction), shall intimate the Authority within the 5<sup>th</sup> day of every month from the date of sanctioning the building licence, that the construction work has not commenced at site, along with the letter of undertaking in that the work has not commenced at site.

(2)The Applicant and the principal professional on record for supervising the works, shall intimate the Authority at least one day before the commencement of works at site.

### **3.16.5 Documents at Site:**

(1)The person to whom a licence is issued shall, during construction, display in a conspicuous place on the exterior wall / fence near the entrance gate to the site, in **Form-IX**.

(2)The details specified in **Appendix-XI** shall be maintained in the site office throughout the period of construction, until occupation certificate is issued by the Authority and shall be available for verification of the Authority or the empanelled professional appointed by the Authority for certification of works.

### **3.16.6 Preparatory works at site that need not be intimated**

The following works may be carried out in the site without intimation to the Authority

- a) Temporary fencing of the boundaries of the site with required number of gates.
- b) Temporary site office, stores, toilets, laboratory, medical facilities for workers etc.
- c) Temporary accommodation, dining, kitchen and toilets for workers
- d) Day care facilities for the children of workers, etc.
- e) Foundation and other temporary structures for erecting of plant and machinery, water tanks etc.

Such other temporary structures to facilitate the construction of the sanctioned building but not part of the sanctioned building.

### **3.16.7 Procedure during construction**

- a) The Applicant and the principal professional of record for supervision of works shall intimate the Authority in, the completion of various stages of construction prescribed in **Appendix-XII**, for certification by Empanelled professional.
- b) On receiving the intimation from the Applicant, the Authority shall inform the selected Empanelled professional to certify the stage of completion of work intimated.
- c) The Empanelled professional shall inspect the site and after checking the work completed as indicated, certify the same in **Form-X** within three days of receiving intimation.
- d) During inspection, according to the Empanelled professional, if the work executed by the Applicant is not as per the approved plans, specifications and other provisions of these Bye-laws, he shall intimate the Authority in **Form-X**, stating the defects in the works executed, along with the photos of such defective works.
- e) On receiving intimation from the Empanelled professional regarding the defects in the works executed at site, the CEO of the Authority shall issue endorsement to the Applicant in **Form-XI**, to rectify the defects, as indicated by the Empanelled professional.
- f) On receiving the endorsement from the Authority, the Applicant shall rectify the defects and intimate the Authority.
- g) According to the Applicant or the concerned professional on record for supervision of work (for which endorsement is received from the Authority), if the defects mentioned in the endorsement is incorrect, the Applicant may file objection, to the Authority, stating the correctness of the works executed, along with the photos to prove the correctness, if required.
- h) If objection is received from the Applicant, the CEO of the Authority shall conduct joint inspection along with the Applicant, the concerned professional on record and the Empanelled professional by giving notice to all, to conduct joint inspection within seven days of receiving objection.
- i) During the joint inspection, the CEO of the Authority, after hearing the views of both the parties, shall either accept or reject the objection raised by the Applicant and instruct the Applicant accordingly after making his inspection report in **Form-XII** and the Applicant shall abide by the decision of the Authority and rectify the defects mentioned in **Form-XII**, if any and intimate the Authority.
- j) On receiving the intimation of defect rectification by the Applicant, the Authority shall inform the Empanelled professional to inspect and certify the rectified work.
- k) The Empanelled professional shall inspect the site and after checking the work rectified as indicated in **Form-XII**, certify the same within three days of receiving intimation and inform the CEO.

### **3.16.8 Inability of Empanelled professional to certify the works and selection of alternate professional**

- (a)If the Empanelled professional selected by the Authority, to certify the execution of any component of the building, is unable to inspect the site within 3 days from the date of receiving the intimation, he may request for additional time of maximum 3 days. If the selected empanelled professional is unable to inspect the site and certify the works within 6 days of receiving the intimation, he may intimate the same stating the reason for his inability to inspect the site for certification.

(b)On receiving intimation from the selected empanelled professional, the Authority shall select alternate empanelled professional and inform to inspect the site and certify the work intimated by the applicant.

### **3.16.9 Action against works executed without intimation and works not rectified**

(1)Any works executed in the building without the certification of the preceding works specified in **Appendix-XII** and the works not rectified as intimated in **Form-X**, shall be liable for penalty as per the rules framed under Section 76F of KTCP Act, 1961.

(2)In such cases, the owner or the promoter, as the case may be, and the professional on record for supervising such works shall also be liable for action as per the rules framed under Section 73 and Section 76FFF of KTCP Act, 1961.

### **3.16.10 Changes to be made in the approved plans, during the execution of works:**

If the Applicant intends to make any changes / deviations in the building from the sanctioned plan, the concerned Professional on record for preparing the particular plan, which has to be altered, modified or added, shall make the necessary changes and submit to the Authority with joint validation of applicant along with an Application in **Form-I** and payment of required fees.

Any such proposed changes from the sanctioned plans shall be as per the provisions of the Master Plan and its Zonal Regulations, these Byelaws or any other relevant laws.

The proposed changes shall be executed at site only after the same is submitted to the Authority.

## **3.17 Completion of project and issuing Completion Certificate**

### **3.17.1 Issuing completion certificate**

On completion of all works at site that have been certified by the empanelled professionals as specified in **Appendix-XII**, as per the specifications and other provisions of these Bye-laws, the principal professional on record for supervising the works, shall issue Completion Certificate in **Form-XIII**, endorsed by all other concerned professionals on record for supervising various components of the building along with the certification of Structural design and safety in **Form-XV**.

### **3.17.2 Application for approval of works from other departments**

- a) The professional on record for preparing drawings and details for all the applicable NOCs from other departments, for the project, shall submit the required applications in **Form-II (any or all of a, b, c, d, e, f, g, h, i and j, as applicable)**,for approvals from other departments for the construction done at site as per the NOCs issued.
- b) On receiving the Completion Certificate and the application to various departments for approving the works executed at sites as per the NOCs issued, the Authority shall intimate all the concerned departments which have issued NOCs, along with the certification done by the empanelled professional, for issuing the prescribed certificate of approval for the construction done at site, wherever applicable.
- c) On receiving the intimation from the Authority, the concerned departments which had issued NOCs, shall issue the required certificates of approval for the construction done at site, wherever applicable, with or without site inspection.
- d) During the site inspection, according to the designated officer of the concerned department, if any of the works executed at site is not as per the conditions/specifications of the NOC issued, he shall issue endorsement through the Authority, to the applicant, along with the photographs of the defective works, to rectify the defects.
- e) On receiving the endorsement from such departments through the Authority, the applicant shall rectify the defects and intimate the concerned department.
- f) According to the Applicant or the concerned professional on record for supervision of work (for which endorsement is received from the concerned department), if the defects mentioned in the endorsement is incorrect, the Applicant may file objection, to the concerned department and the Authority, stating the correctness of the works executed, along with the photos to prove the correctness, if required.
- g) If objection is received from the Applicant, the CEO of the Authority shall conduct joint inspection along with the Applicant, the concerned professional on record, the Empanelled professional and the designated officer of the concerned Department who has issued the endorsement for defective work, by giving notice to all, to conduct joint inspection within seven days of receiving objection.
- h)During the joint inspection, the CEO of the Authority, after hearing the views of both the parties, shall either accept or reject the objection raised and instruct the Applicant accordingly after making

his inspection report in **Form-XII** and the decision of the CEO shall be final. The Applicant shall abide by the decision of the Authority and rectify the defects mentioned in **Form-XII**, if any and intimate the Authority.

- i) On receiving the intimation of defect rectification by the Applicant, the Authority shall inform the Empanelled professional to inspect and certify the rectified work.
- j) The Empanelled professional shall inspect the site and after checking the work rectified as indicated in **Form-XII**, certify the same in **Form-X** within three days of receiving intimation.
- k) The Authority shall forward the certification issued by in **Form-X** by the empanelled professional, to the concerned department and the concerned shall issue the required certificated of approval for the construction done at site, with or without site inspection.

### **3.18 Occupancy Certificate**

On receiving the completion certificate in **Form-XIII** and certificates of approval from the concerned departments or as certified by the Authority as specified in **Clause 3.17.2(h), (i) and (k)**, the Authority shall issue Occupancy Certificate in **Form-XIV** to the building constructed as per these Bye-laws.

#### **3.18.1 Occupancy or letting of the new buildings-**

No person shall occupy or allow any other person to occupy any new building or part of a new building for any purpose whatsoever until occupancy certificate to such buildings or part thereof has been granted.

#### **3.18.2 Occupancy/ Part Occupancy Certificate for Phased Project**

In such cases where a project has not been completed at one stretch but constructed in different stages, part occupancy certificate for the building otherwise complete in all respects, may be issued subject to the condition that such a part occupancy certificate would apply to an independent block/building of the sanctioned project. In case of a residential house part occupancy certificate may be issued for an independent floor. The remaining construction shall be completed in the validity period.

### **3.19 Connection to the municipal sewer / water mains**

- a) Temporary connection for water, electricity or sewer, permitted for the purpose of facilitating the construction, shall not be allowed to continue in the premises without obtaining completion/occupancy certificate.
- b) No connection to the Municipal water mains or to the Municipal sewer line with a building shall be made without the prior permission of the Authority and without obtaining occupancy certificate.
- c) In case the use is changed or unauthorized construction is made, the Authority is authorized to discontinue such services or cause discontinuance of such services.

## **CHAPTER - 4**

### **4. DEVELOPMENT REGULATIONS**

The provisions contained in Master Plan/Zonal Regulations shall apply and where these are silent on such issues or which require interpretation the norms as decidedly the Authority, shall apply. The provisions include but are not limited to the use/activity of premises, ground coverage, FAR, setbacks, open space, height and parking standards for Residential premises on plotted development, Group housing, Resettlement colonies, Slums, In-situ up gradation, Non-residential premises. The permission of uses/use activities in use premises shall be permitted in accordance with provisions of Master Plan and Zonal Regulations. The object of these regulations is to provide control for building/buildings within use premises excluding the internal arrangement, which is covered and controlled by Building Bye-Laws.

## **CHAPTER - 5**

### **5. GENERAL BUILDING REQUIREMENTS AND SERVICES**

#### **5.1 Requirements for Parts of Buildings**

##### **5.1.1 Plinth**

- 5.1.1.1** The plinth or any part of a building or outhouse shall be so located with respect to the surrounding ground level that adequate drainage of the site is assured. The height of the plinth shall be not less than 450 mm from the surrounding ground level, in case of independent houses and not less than 300mm in case of other buildings.

**5.1.1.2 Interior Courtyards and Covered Parking:** Every interior courtyard shall be raised at least 150 mm above the determining ground level and shall be satisfactorily drained.

### **5.1.2 Habitable Rooms**

#### **5.1.2.1 Height**

The clear height of all rooms for human habitation shall not be less than 2.75 m measured from the surface of the floor to the lowest point of the ceiling (bottom of slab) provided that the minimum clear headway under any beam shall not be less than 2.4 m. In the case of pitched roof, the average height of rooms shall not be less than 2.75 m. The minimum clear head room under a beam, folded plates or eaves shall be 2.4 m. In the case of air-conditioned rooms, a height of not less than 2.4mmeasured from the surface of the floor to the lowest point of air-conditioning duct or the false ceiling shall be provided.

**5.1.2.2** The requirements of **clause 5.1.2.1** shall apply to residential, business and mercantile buildings. For educational and industrial buildings, the following minimum requirements apply:

**Table 5.1 Minimum height requirement for educational and industrial buildings**

<b>Sl. No</b>	<b>Type of Occupancy</b>	<b>Ceiling height</b>
1	Educational Buildings	Ceiling height 3.6m for all regions
2	Industrial Buildings	Ceiling height 3.6m, except when air-conditioned, 3m (Factory Act 1948 and Rules therein shall govern such heights, where applicable)

#### **5.1.2.3 Size**

The area of habitable room shall not be less than 9.5Sqm, where there is only one room with a minimum width of 2.4 m. Where there are two rooms, one of these shall not be less than 9.5Sqm and the other not less than 7. 5Sq.m, with a minimum width of 2.1 m.

### **5.1.3 Kitchen**

#### **5.1.3.1 Height**

The height of a kitchen measured from the surface of the floor to the lowest point in the ceiling (bottom of slab) shall not be less than 2.75 m, except for the portion to accommodate floor trap of the upper floor.

#### **5.1.3.2 Size**

The area of a kitchen where separate dining area is provided, shall be not less than 5.0 Sq. m with a minimum width of 1.8 m. Where there is a separate store, the area of the kitchen may be reduced to 4.5 Sq. m. A kitchen, which is intended for use as a dining area also, shall have a floor area of not less than 7.5 Sq. m with a minimum width of 2.1 m.

#### **5.1.3.3 Other Requirements**

Every room to be used as kitchen shall have:

- a) unless separately provided in a pantry, means for the washing of kitchen utensils which shall lead directly or through a sink to a grated and trapped connection to the waste pipe
- b) an impermeable floor
- c) a flue, if found necessary

### **5.1.4 Bathrooms and Water-Closets**

#### **5.1.4.1 Height**

The height of a bathroom or water-closet measured from the surface of the floor to the lowest point in the ceiling (bottom of slab) shall not be less than 2.1 m.

#### **5.1.4.2 Size**

The area of a bathroom shall not be less than 1.8 Sq. m with a minimum width of 1.2m. The floor area of water-closet shall be 1.1 Sq.m with a minimum width of 0.9 m. If bath and water-closet are combined, its floor area shall not be less than 2.8 Sq.m with a minimum width of 1.2 m.

#### **5.1.4.3 Other Requirements**

Every bathroom or water-closet shall:

- a) Be so situated that at least one of its walls shall face a shaft or open space
- b) Not be directly over or under any room other than another water-closet, washing place, bath or terrace, unless it has a water-tight floor;
- c) Have the platform or seat made of water-tight non-absorbent material;
- d) be enclosed by walls or partitions and the surface of every such wall or partition shall be finished with a smooth impervious material to a height of not less than 1 m above the floor of such a room;
- e) Be provided with an impervious floor covering, sloping towards the drain with a suitable grade and not towards VERANDAH or any other room; and
- f) Have a window or ventilator, opening to a shaft or open space, of area not less than 0.3 Sq.m with side not less than 0.3 m.

#### **5.1.4.4** No room containing water closets shall be used for any purpose except as a lavatory and no such room shall open directly into any kitchen or cooking space by a door, window or other opening. Every room containing water-closet shall have a door completely closing the entrance to it.

#### **5.1.5 Loft**

##### **5.1.5.1 Height**

The minimum head-room of loft shall be 2.2 m. The maximum height of loft shall be 1.5 m.

##### **5.1.5.2 Size**

A loft in a habitable room shall not cover more than 25 percent of the area of the floor on which it is constructed and shall not interfere with the ventilation of the room under any circumstances.

#### **5.1.6 Mezzanine Floor**

##### **5.1.6.1 Height**

It shall have a minimum height of 2.2 m.

##### **5.1.6.2 Size**

The minimum size of the mezzanine floor, if it is to be used as a living room, shall not be less than 9.5 Sq.m. The aggregate area of such mezzanine floor in a building shall in no case exceed one third the plinth area of the building.

##### **5.1.6.3 Other Requirements**

A mezzanine floor may be permitted over a room or a compartment provided:

- a) it conform to the standard of living rooms as regards lighting and ventilation incase the size of mezzanine floor is 9.5 Sq.m or more
- b) It is so constructed as not to interfere under any circumstances with the ventilation of the space over and under it;
- c) Such mezzanine floor is not sub-divided into smaller compartments;
- d) Such mezzanine floor or any part of it shall not be used as a kitchen; and
- e) In no case shall a mezzanine floor be closed so as to make it liable to be converted into unventilated compartments.

#### **5.1.7 Store Room**

##### **5.1.7.1 Height**

The height of a store room shall be not less than 2.1 m.

##### **5.1.7.2 Size**

The size of a store room, where provided in a residential building, shall be not less than 3 Sq.m

#### **5.1.8 Garage**

##### **5.1.8.1 Height**

The height of a garage shall be not less than 2.4 m.

##### **5.1.8.2 Size**

The size of garages shall be as below:

- a) Private Garage - 3.0 m × 6.0 m, minimum; and
- b) Public Garage - Based on the number of vehicles parked by ECS.

### **5.1.9 Basement**

**5.1.9.1** The Authority in accordance with the land use and other provisions specified under the Zonal Regulations shall allow the construction and usage of the basement.

**5.1.9.2** The basement shall have the following requirements:

- a) Every basement shall be in every part at least 2.4 m in height from the floor to the underside of the roof slab/beam joists and at any part shall not exceed 4.5m in height;
- b) Adequate ventilation shall be provided for the basement. The ventilation requirements shall be the same as required by the particular occupancy according to byelaws. Any deficiency may be met by providing adequate mechanical ventilation in the form of blowers, exhaust fans, air-conditioning systems, etc.
- c) The maximum height at the top of the roof slab of the basement floor shall not be more than 1.2m above the average surrounding ground level;
- d) Adequate arrangements shall be made such that surface drainage does not enter the basement;
- e) The walls and floors of the basement shall be watertight and be so designed that the effects of the surrounding soil and moisture, if any, are taken into account in design and adequate damp proofing treatment is given; and
- f) The access to the basement shall be separate from the main and alternative staircase providing access and exit from higher floors.
- g) Where the staircase is continuous in the case of buildings served by more than one staircase, the same shall be of enclosed type serving as a fire separation from the basement floor and higher floors. Open ramps shall be permitted if they are constructed within the building line subject to the provision of (d). The exit requirements in basements shall comply with the provisions of these Byelaws.

### **5.1.10 Chimneys**

The chimneys shall be built at least 0.9 m above flat roofs, provided the top of the chimneys is not below the top of the adjacent parapet wall. In the case of sloping roofs, the chimney top shall not be less than 0.6 m above the ridge of the roof in which the chimney penetrates.

### **5.1.11 Parapet**

Parapet walls and handrails provided on the edges of roof terraces, balcony, verandah, etc. shall not be less than 1.0 m and not more than 1.2 m in height from the finished floor level.

**Note:**

- i. The above shall not apply where roof terrace is not accessible by a staircase.
- ii. However on terrace floor in the portion where installations like DG Set, Water Tank and other, screening parapet of a suitable height may be constructed to hide such equipment's etc. and there is no need to have uniform increase in the height of the parapet.

### **5.1.12 Boundary Wall**

The requirements of the boundary wall shall be as follows:

- a) Except with the special permission of the Authority, the maximum height of the compound wall shall be 1.5 m above the Centre line of the front street. Compound wall up to 2.4 m height may be permitted if the top 0.9 m is of open type construction of a design to be approved by the Authority.
- b) In the case of a corner plot, the boundary wall shall be constructed as specified by the ULB or the Government. and
- c) However, the provisions of (a) and (b) are not applicable to boundary walls of jails. In electric sub-stations, transformer stations, institutional buildings like sanatoria, hospitals, industrial buildings like workshops, factories and educational buildings like schools, colleges, including hostels and other uses of public utility undertakings and strategically sensitive buildings, a height up to 2.4 m may be permitted by the Authority.

### **5.1.13 Septic Tanks**

Where a septic tank is used for sewage disposal, the location, design and construction of septic tank shall conform to requirements as notified by the Government.

### **5.1.14 Office-cum-Letter Box Room**

In the case of multi-storeyed multi-family dwelling apartments constructed by existing and proposed Apartment Owners Associations, limited companies and proposed societies, an office-cum-letter box room of dimension  $3.6\text{ m} \times 3\text{ m}$  shall be provided on the ground floor. In case the number of flats is more than 20, the maximum size of the office-cum-letter box room shall be  $20\text{ m}^2$ .

In case of **Business buildings** provisions shall be made for letter boxes on the entrance floor as per the requirements of the postal department.

### **5.1.15 Meter Rooms**

For all buildings above 15 m in height and in special occupancies, like educational, assembly, institutional, industrial, storage, hazardous and mixed occupancies with any of the aforesaid occupancies having area more than  $500\text{ m}^2$  on each floor, provision shall be made for an independent and ventilated meter (service) room, as per requirements of electric (service) supply undertakings on the ground floor with direct access from outside for the purpose of termination of electric supply from the licensee's service and alternative supply cables. The door/doors provided for the service room shall have fire resistance of not less than two hours.

### **5.1.16 Roofs**

**4.1.16.1** The roof of a building shall be so designed and constructed as to effectively drain water by means of sufficient rain-water pipes of adequate size, wherever required, so arranged, jointed and fixed as to ensure that the rain-water is carried away from the building without causing dampness in any part of the walls, roof or foundations of the building or an adjacent building.

**a.** The Authority may require rain-water pipes to be connected to a drain or sewer to a covered channel formed beneath the public footpath to connect the rainwater pipe to the road gutter or in any other approved manner.

**b.** Rain-water pipes shall be affixed to the outside of the external walls of the building or in recesses or chases cut or formed in such external walls or in such other manner as may be approved by the Authority.

**c.** It is desirable to conserve rain water using suitable rain water harvesting techniques including by roof water collection. In this context, reference may be made to Part 9 'Plumbing Services, Section 1 Water Supply, Drainage and Sanitation (Including Solid Waste Management)' of NBC, 2005.

## **5.2 Other general requirements**

### **5.2.1 Swimming Pool**

1) *Definition:* A constructed pool or a tank indoor or outdoor, used for the purpose of swimming, bathing, aquatic sports or games, training, treatment (Therapy) or recreation, meant exclusively for human being, having a depth of water not less than that 60 cm. and the surface area exceeding  $23.25\text{ Sq.m}$  both for the use of public or the institution concerned.

i) *'Capacity of Pools in Relation to Bathers':* The maximum number of persons in bathing attire within the pool enclosures of the bathing area shall not exceed one person per  $20\text{ Sq ft.}$  ( $1.86\text{ Sq m.}$ ) of pool i.e. the area of the water surface.

2) *'Hand Rail':* A side handrail extending up above and returning to the horizontal surface of the pool deck curb or coping shall be provided at each side of each ladder.

3) *'Depth Markers':* Depth of water shall be clearly marked at or above the water surface on the vertical pool wall and on the edge of the deck or walk-way next to the pool, at maximum points and at the points of break between the deep and shallow portions and at intermediate increments of depth, spaced at not more than  $2.5'$  ( $7.62\text{cm}$ ) intervals. Depth markers, contrasting with background shall be on both sides of the pool.

4) *'Lighting and wiring':* Where submarine lightning is used, not less than 0.5 watts shall be employed per sq. ft. of pool area.

5) *'Area Lightning':* Where submarine lightning is employed, area lightning shall be provided for the deck areas and directed towards the deck areas and away from the pool surface so far as practicable, in a total capacity of not less than 0.6 watt per sq. ft of deck area.

Where submarine lighting is not provided and night swimming is not permitted combined pool lightning shall be provided in an amount of not less than 2 watts per sq. ft. of total area. All submarine lightning shall be individually earthed and must be water tight and damp proof.

6) *'Over Head wiring':* No electrical wiring for electrical or power shall be permitted to pass over within 20 feet of the pool enclosure.

7) 'Shallow Minimum Depth': Every swimming pool shall have a minimum depth in the shallow area of the main swimming area of not less than 0.9 m (3 feet), but not more than 1.07m. (3'-6") from the overflow level to the floor.

8) 'Shallow Areas': In a swimming pool with a diving area, the shallow area of the pool shall be defined as the portion between the shallow end and the break point between the shallow area and the diving area. The slope of the floor shall be uniform from the break point between the diving area and the shallow portion to the outside edge of the shallow portion and shall not be greater than 1 in 2 m.

9) 'Vertical Wall Depth': The pool walls shall be vertical at all points for a depth of not less than 2 ft 6' (0. 76 m.)

### **5.2.2 Means of access**

**5.2.2.1** No Building shall be erected as to deprive any other building of its means of access.

**5.2.2.2** Every person who erects a building shall not at any time erect or cause or permit to erect or re- erect any building, which in any way encroaches upon or diminishes the area set apart as means of access.

**5.2.2.3** The Means of Access prescribed in the Zonal Regulations shall be considered while sanctioning Building Licence. The portion of the plot required for widening the road to the proposed width shall be relinquished free of cost without claiming any compensation (including DR), before sanctioning Building Licence.

### **5.2.3 Staircase Requirements**

**5.2.3.1** The minimum clear width, minimum tread width and maximum riser of staircases for buildings shall be as given as below (see also Part 4 Fire and Life Safety of NBC2005).

#### **5.2.3.2 Minimum width**

**Table 5.2 The minimum width of staircase**

<b>A</b>	i) Residential buildings (dwellings) ii) Apartment buildings NOTE – For row housing with 2 storeys, the min. width shall be 0.75m	1.0m 1.2m
<b>B</b>	Hotel buildings/Lodging House	1.5m
<b>C</b>	Assembly buildings like auditoria, theatres and cinemas	2.0m
<b>D</b>	Educational building	1.5m
<b>E</b>	Institutional buildings	2.0m
<b>F</b>	All other buildings	1.5m

#### **5.2.3.3 Minimum tread**

The minimum width of tread without nosing shall be 250 mm for residential buildings. The minimum width of tread for other buildings shall be 300 mm.

#### **5.2.3.4 Maximum riser**

**5.2.3.4.1** The maximum height of riser shall be 190 mm for residential buildings and 150 mm for other buildings and these shall be limited to 12 per flight.

**5.2.3.4.2** The minimum head-room in a passage under the landing of a staircase shall be 2.1m. The minimum clear head-room in any staircase shall be 2.1 m.

### **5.2.4 Exit Requirements**

All aspects of exit requirements for corridors, doors, stair cases, ramps, etc. in respect of widths, travel distance shall be as prescribed in these Byelaws.

#### **5.2.4.1 Occupant Load**

The following occupant load shall be considered for calculating the exit requirement of the building

**Table 5.3 Occupant Load**

<b>S1. No.</b>	<b>Type of Occupancy</b>	<b>Occupant Load per 100 Sq.m of Carpet Area (in persons)</b>
1	Residential	8.0
2	Educational	25.0
3	Institutional	6.60
4	Assembly With fixed or loose seats and dance floor without seating facilities including dining rooms	166.6 66.6
5	Mercantile Street floor and sales basement Upper sale floor	33.3 16.6
6	Business and industrial	10.0
7	Storage	3.3
8	Hazardous	10.0

Note:

1. The occupant load in dormitory portions of homes for the aged, orphanages or mental hospitals etc. where sleeping accommodation is provided shall be calculated at not less than 13.3 persons per 100 Sq.m

2. In case of assembly occupancy, all rooms, toilets common areas connected to the assembly occupancy shall be included in the carpet area for calculating the occupancy load.

#### **5.2.4.2 Number and size of Exits**

The requisite number and size of various exits shall be provided, based on the occupants in each room and floor based on the occupant load, capacity of exits, travel distance and height of buildings as prescribed in these Byelaws.

At least one primary entrance to each building shall be usable by individuals in wheelchairs and shall be indicated by a sign. At least one entrance usable by individuals in wheelchairs shall be on a level that would make the elevators accessible.

#### **5.2.4.3 Arrangement of Exits**

a) Exits shall be so located so that the travel distance on the floor shall not exceed 30 m for residential, educational, institutional assembly, business, mercantile and storage occupancies, 45.0 m. for industrial occupancy and 22.5m for hazardous building. For fully sprinklered building, the travel distance may be increased by 50 percent of the above values. Whenever more than one exit is required for a floor of a building they shall be placed as remote from each other as possible. All the exits shall be accessible from the entire floor area at all floor levels, where separate fire separation walls are not provided.

b) The travel distance to an exit from the dead end of the corridor, if applicable, shall not exceed half the distance as stated above except in the case of institutional occupancy in which case it shall not exceed 6.0 m.

#### **5.2.4.4 Capacity of Exits**

The capacity of exits (staircase, ramps and doorways) indicating the number of persons that could be safely evacuated through a unit exit width of 50 cm shall be as given below:

**Table 5.4 Occupants per unit Exit width**

S1. No.	Group of Occupancy	Number of Occupants		
		Stairways	Ramps	Doors
1	Residential	25	50	75
2	Educational	25	50	75
3	Institutional	25	50	75
4	Assembly	40	50	60
5	Business	50	60	75
6	Mercantile	50	60	75
7	Industrial	50	60	75
8	Storage	50	60	75
9	Hazardous	25	30	40

#### **5.2.4.5 Minimum Width Provisions for Passageway/Corridors:**

The following minimum width provisions shall be made for each passage way/corridor.

a) Residential buildings, upto 4 dwelling units	1.00 m.
b) Apartment buildings, hostels, etc.	1.25 m.
c) Assembly buildings like auditorium theatres and cinemas	2.00 m.
d) All other buildings including hotels	1.50 m.
e) Hospital, Nursing Homes, etc.	2.40 m.

#### **5.2.5 Ramps:**

- a) The ramp to basement and parking floors shall be as prescribed in the Zonal Regulations.
- b) Ramps may also be provided in the setbacks to function as fire drive cum ramp for basements, which can be sloped considering unhindered movement of fire engine and in no case the gradient shall be less than 1:8.
- c) All structural design/safety aspects as per latest BIS Codes & NBC, 2005 shall be complied along with consideration of weight of Fire Engine & its maneuverings.
- d) The minimum width of the ramps in hospitals shall be 2.4 m for stretcher and not for vehicular movement.
- e) In this case Handrails shall be provided on both sides of the ramp.
- f) Ramps shall lead directly to outside open space at ground level or courtyards or safe place

#### **5.2.6 Doorways:**

- a. Every doorway shall open into an enclosed stairway, a horizontal exit, on a corridor or passageway providing continuous and protected means of egress.
- b. No exit doorways shall be less than 1m in width except assembly and institutional buildings where Doorway shall not be less than 2 m.
- c. Exit doorways shall open outwards, that is away from the room but shall not obstruct the travel along any exit. No door when opened shall reduce the required width of stairway or landing to less than 0.90 m Overhead or sliding door shall not be installed.
- Note: In the case of buildings where there is a central corridor, the doors of rooms shall open inwards to permit smooth flow of traffic in the corridor
- d. Exit door shall not open immediately upon a flight of stairs. A landing equal to at least, the width of the door shall be provided in the stairway at each doorway. Level of landings shall be the same as that of the floor, which it serves.
- e. Exit doorways shall be open-able from the side, which they serve without the use of a key.
- f. Revolving doors shall not to be provided as means of fire exit.
- g. Mirrors shall not be placed in exit ways or exit doors to avoid confusion regarding the direction of exit.

#### **5.2.7 Provision of exterior open spaces and height limitation around the building**

**5.2.7.1** The open spaces/setbacks, coverage, FAR, parking requirements shall be as per Zoning regulations of the Master Plan

**5.2.7.2** Every room that is intended for human habitation shall abut on an interior or exterior open space or on to a verandah open to such interior or exterior open space. In case of High rise the driveway in exterior open spaces around a building shall be of green or hard surface capable of taking load of fire engine weighing up to 45 ton.

**5.2.7.3** In case, kitchen and toilets do not about either interior or exterior open spaces, mechanical ventilation would be accepted.

#### **5.2.8 Interior Open Space for Light and Ventilation**

**5.2.8.1** The whole or part of one side of one or more rooms intended for human habitation and not abutting on either the front, rear or side open spaces shall abut on an interior open space whose minimum width in all directions shall be 3m in case of buildings not more than 15m in height, and in case of high-rise buildings it shall have mandatory mechanical ventilation in addition

#### **5.2.8.2 Sunken Courtyard:**

Sunken courtyard up to 3m in depth from the ground level as 'light well' within building envelop shall be permitted for light and ventilation for basement area.

### **5.2.8.3 Skylight:**

Skylight in interior open space (courtyard) shall be permitted subject to the fact that it may not act as a covered space on the ground floor and does not violate the maximum/minimum ground coverage rules.

### **5.2.9 Lighting and ventilation of rooms**

#### **5.2.9.1 IS Codes for lighting & ventilation requirements**

Rooms shall have, for the admission of light and air, one or more openings, such as windows and ventilators, opening directly to the external air or into an open *VERANDAH*.

Lighting and ventilation requirements of all types of buildings shall be designed and approved in accordance with the provisions of the following two IS Codes –

- i. SP 32 (1986): Hand book on Functional Requirements of Industrial Buildings(Lighting and Ventilation) [CED 12: Functional Requirements in Buildings] and
- ii. SP 41 (1987): Hand book on Functional Requirements of Buildings (Other than Industrial Buildings) [CED 12: Functional Requirements in Buildings]

Lighting loads of various spaces of –

- i. Industrial buildings shall be determined as per Clause 1, Section 1 of SP 32(1986)
- ii. Non-Industrial buildings shall be determined as per Clause 2, Part 4 of SP 41(1987)

Thermal comfort levels and design requirement of various spaces of –

- i. Industrial buildings shall be determined as per Section 2 of SP 32 (1986)
- ii. Non-Industrial buildings shall be determined as per Part 2 of SP 41 (1987)

Minimum Fresh Air requirement for –

- i. Industrial buildings shall be determined as per Clause 13 of Section 2 of SP 32(1986)
- ii. Non-Industrial buildings shall be determined as per Clause 4 of Part 3 of SP 41(1987)

#### **5.2.9.1.1 The minimum aggregate area of openings**

The minimum aggregate area of such openings, excluding doors inclusive of frames, shall be not less than one-sixth of the floor area;

#### **Notes**

1. *If a window is partly fixed, the openable area shall be counted.*
2. *No portion of a room shall be assumed to be lighted, if it is more than 7.5 m away from the opening assumed for lighting that portion.*
3. *The area of openings as given in (a) to (d) above shall be increased by 25 percent in the case of a kitchen.*

All habitable rooms shall have for the admission of light and air, one or more apertures, such as window, glazed door, opening directly to the external air or into an open verandah not more than 2.40 m. in width. In case light and ventilation to habitable space area are through an internal courtyard, the minimum dimensions of such courtyard shall not be less than 3.0 m. x 3.0 m. for buildings up to 12.50 m. in height. For buildings with higher heights, the minimum dimensions of the internal courtyard shall be as given in these Bye-Laws.

Where the lighting and ventilation requirements are not met through day lighting and natural ventilation, the same shall be ensured through artificial lighting and mechanical ventilation as given in part-VII building services Section-1 lighting and Ventilation of National Building Code of India published by the Bureau of Indian Standards. The latest version of the National Building Code of India shall be taken into account at the time of enforcement of the Building Bye-Laws.

#### **5.2.9.2 Ventilation Shaft**

For ventilating the spaces for water closets and bathrooms, if not opening on the front side, rear and interior open spaces, shall open on the ventilation shaft, the size, of which shall not be less than the values given below:

**Table 5.5 Size of Ventilation Shaft**

Height of Building (m)	Size of ventilation shaft (Sq.m)	Minimum size of shaft (m)
Up to 10.0	1.2	0.9
Up to 12.0	2.8	1.2
Up to 18.0	4.0	1.5
Up to 24.0	5.4	1.8
Up to 30.0	8.0	2.4
Above 30.0	9.0	3.0

**Notes:**

- i. For buildings above 30.0 m. height, mechanical ventilation system shall be installed besides the provision of minimum ventilation shaft.
- ii. For fully air-conditioned buildings the ventilation shaft need not be insisted upon, provided the air-conditioning system works in an uninterrupted manner, also, provided there is an alternative source of power supply. However, it is not mandatory in case of buildings where ventilation is mechanized

**5.3 Building Services****5.3.1 Electrical, Air conditioning, Lift & Escalator installations****5.3.1.1 Planning, design and installations of electrical, air-conditioning and lift installations**

The Planning design and installation of electrical installations, air conditioning installation of lifts and escalators can be carried out in accordance with Part-VII Building Services, section-2 electrical installation, section-3 air conditioning and heating, section-5 installation of lifts and escalators of National Building Code of India. However, deviations from National Building Code may be done as per good Engineering practices.

**5.3.1.2 Number and types of lifts**

Lift shall have to be provided for buildings with more than ground plus three floors.

The number and type of lifts to be provided in different buildings shall be as given in **Appendix-XIIIA**.

**5.3.1.3 Requirements of Electrical substation**

The requirements of electric sub-station are given in **Appendix-XIIIB**. The provision of electric sub-station shall also require approval from Electricity Board concerned.

**5.3.2 Plumbing and Sanitary Services****5.3.2.1 Planning, design, construction and installation of Water supply, drainage and sanitation and gas supply system**

The planning, design, construction and installation of water supply, drainage and sanitation and gas supply system shall be in accordance with Part-9: Plumbing Services, Section-1 Water supply, Drainage and sanitation (including Solid Waste Management) and Section-2 Gas supply of NBC, 2005.

**5.3.2.2 Norms for differently-abled within segregated toilets:**

- i. One special W.C. in a set of toilet shall be provided for the use of differently abled persons, with essential provision of wash basin near the entrance.
- ii. Minimum clear opening of the door shall be 900 mm. and the door shall swing out.
- iii. Suitable arrangement of vertical/horizontal handrails with 50 mm. clearance from wall shall be made in the toilet.
- iv. The W.C. seat shall be 500 mm. from the floor.

**5.3.2.3 Water requirement and facilities:**

Water requirement for the facility may be worked out and enough storage for  $\frac{1}{2}$  day operation is to be kept in storage. If municipal water supply is reliable, the toilet blocks may have underground sump that can store half a day requirement and overhead tanks for another half. If municipal water supply is not available, toilet block may have its own bore well and pump with no underground sump.

Alternatively, a hand tube well can be used for storing water in an elevated (not overhead) tank. To minimize the wastage of water, self-closing water taps should be used. The pans must be of Pour Flush (PF) design i.e. with a steep slope. Traps should be of a 20 mm water seal. (Use of 50 mm water seal traps will require more water for flushing.) If toilet is to be

linked to city sewer, a master trap has to be provided at the sewer connection for waste water line (excluding soil line).

**Table 5.6 Per Capita water requirement for various Occupancies /Uses**

S1. No	Type of Occupancy	Consumption per head per day (in lt.)
1	Residential a) In living units b) Hostels c) Hotels with lodging accommodation (per bed) d) Hotels (5 star and above)	135 135 180 340
2	Educational a) Day schools b) Boarding Schools	45 135
3	Institutional (Medical Hospitals) a) No. of beds not exceeding 100 b) No. of beds exceeding 100 c) Medical quarters and hostels	340 450 135
4	Assembly – Cinema theatres, auditoria, etc. (per seat accommodation)	15
5	Government or Semipublic business	45
6	Segregated toilet facilities for Visitors in Public Buildings a) Each use of toilet (including washing hands and floors) b) Flushing urinals	7 0.20
7	Mercantile (Commercial) a) Restaurants (per seat) b) Other business building	70 45
8	Industrial a) Factories where bath-rooms are to be provided b) Factories where bath-rooms are not to be provided	45 30
9	Storage (including Warehouses)	30
10	Hazardous	30
11	Intermediate Railway Stations (excluding mail and express stops)	45 (25) *
12	Junction Railway Station	70 (45) *
13	Terminal Railway Station	45
14	International and Domestic Airports	70

\*The values in parenthesis are for such station, where bathing facilities are not provided.

**Note:** The number of persons for Sl. No. 11 to 14 shall be determined by the average number of passenger handled by the station daily with due consideration given to the staff and workers likely to use the facilities.

**Table 5.7 Flushing Storage Capacities**

<b>Sl. No</b>	<b>Classification of Building</b>	<b>Storage Capacity</b>
1	For tenements having common convenience	900 lt. net per w.c. seat
2	For residential premises, other than tenement having common conveniences	270 lt. net for one w.c. seat each and 180lt. for each additional seat in the same flat.
3	For factories and workshops	900 lt. per w.c. seat and 180 lt. per urinal
4	For cinemas, public assembly hall, etc.	900 lt. per w.c. seat and 350 lt. per urinal

**Table 5.8 Domestic Storage Capacities**

<b>Sl. No.</b>	<b>No. of Floors</b>	<b>Storage Capacity</b>	<b>Remarks</b>
For premise occupied tenements with common conveniences:			
1	Ground floor	Nil	Provided down take fittings are installed
2	Floors 2,3,4,5 and upper floors	500 liters per tenement	
For premise occupied as flats or blocks			
1	Ground floor	Nil	Provided down take fittings are installed
2	Floors 2,3,4,5 and upper floors	500 liters per tenement	

**Note:** 1. If the premises are situated at a place higher than the road level in front of the premises, storage at ground level shall be provided on the same lines as on floors.

2. The above storage may be permitted to be installed provided that the total domestic storage calculated on the above basis is not less than the storage calculated on the number of down take fittings according to scale given below:

Down take taps 70 l. each

Showers 135 l. each

Bathtubs 200 l. each

**Table 5.9 Sanitation requirements for Shops and Commercial Offices**

<b>Sl. No</b>	<b>Sanitary Unit / Fittings</b>	<b>For Personnel</b>
1	Water closet	One for every 25 persons or part thereof exceeding 15(including employees and customers). For female personnel 1 for every 15 persons or part thereof exceeding 10.
2	Drinking Water Fountain	One for every 100 person with a minimum of one on each floor.
3	Wash basin	One for every 25 persons or part thereof
4	Urinals	Same as Sl.No. 3 of Table 4.14
5	Cleaners' Sink	One per floor minimum, preferably in or adjacent to sanitary rooms.

**Note:** Number of customers for the purpose of the above calculation shall be the average number of persons in the premises for a time interval of one hour during the peak period. For male-female calculation a ratio of 1:1 may be assumed.

**Table 5.10 Sanitary Requirements for Hotels**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Residential Public staff</b>	<b>For non-residential Staff</b>	
		<b>For male</b>	<b>For female</b>	
	Water Closet (W.C)	One per 8 Persons omitting occupants of the attached water closet minimum of 2 if both sexes are lodged.	1 for 1-15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 for 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41-57 persons 10 for 58-77 persons 12 for 78-100 persons Add 1 for every 6 persons or part thereof
	Ablution Taps	One in each W.C	One in each W.C	One in each W.C
	Urinals	Nil	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 40-70 persons 4 for 71-100 persons	Nil
	Wash Basins	One per 10 persons omitting each basin installed in the room / suite	1 for 15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 for 1-12 4 for 13-25 6 for 26-40 8 for 41-57
	Baths	One per 10 persons less occupants of room with bath in suite	Nil	Nil
	Cleaner's Sinks	One per 30 Bed rooms (one per floor minimum)	Nil	Nil
	Kitchen Sink	One in each Kitchen	One in each Kitchen	One in each Kitchen

**Table 5.10 (a) Sanitary Requirements for Public Rooms**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male</b>	<b>For Female</b>
1	Water Closet	One per 100 persons upto 400 persons; for over 400 add at the rate of one per 250 persons or part thereof	Two for 100 persons upto 200 persons; over 200 add at the rate of one per 100 persons or part thereof
2	Ablution Taps	One in each W.C.	One in each W.C.
3	Urinals	One for 50 persons or part thereof.	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons
4	Wash Basins	One per WC/Urinals	One per W.C
5	Kitchen Sink	One in each Kitchen	One in each Kitchen
6	Baths (showers)	One per 10 persons	
7	Cleaner's Sinks	One per 30 Bed rooms (one per floor minimum)	

**Note:** i) It may be assumed that the two-thirds of the number are males and one-third females.  
ii) One water tap with drainage arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closet and urinals.

**Table 5.11 Sanitation Requirements for Educational Occupancy**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>Boarding Institution</b>		<b>For non-residential Staff</b>	
		<b>For Boys</b>	<b>For Girls</b>	<b>For Boys</b>	<b>For Girls</b>
1	Water Closet (W.C)	One for 8 Persons Or part thereof			
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One per every 25 pupils or part there of		One per every 20 pupils or part there of	
4	Washbasins	One for every 8 pupils or part thereof	One for every 6 pupils or part thereof	One for every 60 pupils or part thereof	One for every 60 pupils or part thereof
5	Baths	One for every 8 pupils or part there of	One for every 6 pupils or part there of		
6	Drinking Water Fountains	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof
7	Cleaner's Sinks	One per Floor minimum	One per Floor minimum	One per Floor minimum	One per Floor minimum

**Table 5.11(a) Sanitation Requirements for Nursery Schools**

<b>Sl.No.</b>	<b>Sanitary Unit</b>	<b>Requirement</b>
1	Water Closet	One for 15 boys, one for 6 girls
2	Ablution Taps	One in each W.C.
3	Urinals	One for 12 boys
4	Washbasins	One for every 15 pupils or part thereof
5	Baths	One bath per 40 pupils
6	Drinking Water Fountains	One for every 50 pupils or part thereof
7	Cleaner's Sinks	One per Floor minimum

**Note:**

1. One water tap with draining arrangements shall be provided for every 50 persons or part thereof, in the vicinity of water closets and urinals.
2. For teaching staff, the schedule of sanitary units to be provided shall be the same as in case of office buildings (**Table 5.10**).

**Table 5.12 Sanitation Requirements for Institutional (Medical) Occupancy – Hospital**

<b>Sl. No.</b>	<b>Sanitary Unit</b>	<b>Hospitals with indoor Patient Ward For Males &amp; females</b>	<b>Hospitals with outdoor Patient Wards For Males</b>	<b>For Females</b>
1	Toilet Suite (1WC+1Washbasin+ 1shower)	Private room upto 4 persons	For upto 4 patients	
2	Water Closet(W.C)	One for every 8 beds or part thereof	One for every 100 persons or part thereof	One for every 25 persons or part thereof
3	Ablution Taps	One in each W.C.	One in each W.C.	One in each W.C.
4	Washbasins	Two upto 30 bed; add one for every additional 30 beds; or part thereof	One for every 100 persons or part thereof	One for every 25 persons or part thereof
5	Baths with Shower	One bath with shower for every 8 beds or part thereof		
6	Bed Pan Washing sink	One for each ward		
7	<b>Cleaner' Sinks</b>	One for each ward	One per floor minimum	One per floor minimum
8	Kitchen sinks & dish Washers (where Kitchen is provided)	One for each ward		
9	Urinals	One for 30 beds (male wards)	One for every 50 persons or part thereof	
10	Drinking water fountain	One for each ward	One for 500 persons or part thereof	

**Table 5.12(a) Sanitation Requirements for Administrative Buildings**

<b>Sl. No</b>	<b>Sanitary Unit</b>	<b>For Males</b>	<b>For Females</b>
1	Toilet Suite (1WC+1Washbasin+ 1shower)	For individual doctor's/officer's rooms	
2	Water Closet (W.C)	One for every 25 persons or part thereof	Two for every 25 persons or part thereof
3	Ablution Taps	One in each W.C.	One in each W.C.
4	Wash Basins	One for every 25 persons or part thereof	One for every 25 persons or part thereof
5	Baths with Shower	One on each floor	One on each floor
6	Cleaner's Sink	One per floor minimum	One per floor minimum
7	Kitchen sinks & dish Washers (where Kitchen is provided)	One for each floor	One for each floor
8		Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 persons add at the rate of 3%; for over 200 persons add at the rate of 2.5%	
9	Drinking water fountain	One for 100 persons or part thereof	

**Table 5.13 Sanitation Requirements for Government and Public Business Occupancy and Offices**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male Personnel</b>	<b>For Female Personnel</b>
<b>1</b>	<b>Water Closet (W.C)</b>	One for 25 persons or part thereof	Two for 15 persons or part thereof
<b>2</b>	Ablution Taps	One in each W.C	One in each W.C
<b>3</b>	Urinals	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 add 3% for over 200 persons add @ 2.5%	
<b>4</b>	Wash Basins	One for every 25 persons or part thereof	One for every 25 persons or part thereof
<b>5</b>	Drinking water fountains	One for every 100 persons with a minimum of one on each floor	One for every 100 persons with a minimum of one on each floor
<b>6</b>	Cleaner's Sink	One per floor minimum, preferably in or adjacent to sanitary rooms	
<b>7</b>	<b>Executive Room / Conference Halls</b>	Toilet Suite (1 WC, 1 washbasin, and optional shower for 24 hr. usages) Unit could be common for Male/Female or separate depending on the number of user of each facility.	

**Note:** One water tap with drainage arrangements shall be provided / 50 persons or part thereof in the vicinity.

**Table 5.14 Segregated sanitation facilities for Visitors in Public Buildings.**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male Personnel</b>	<b>For Female Personnel</b>
1	Public toilet near Railway Stations (24x7) a) Water Closet (W.C) b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 300-500 c) One in each W.C	a) One for 50 users b) -- c) One in each W.C
2	Public Toilet near market place/offices (for working hours) a) Water Closet b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 200-300 users c) One in each W.C	a) One for 50 users b) -- c) One in each W.C
3	Public toilets near Public Buildings a) Water Closet b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 200-300 users c) One in each W.C	a) One for 50 users b) -- c) One in each W.C

Per Capita Volume of Water required may be referred at item 6, **Table 4.6**  
Area and sizes of seats/units may be referred at **Table 4.16**

**Table 5.15 The recommended enclosure-sizes for different facilities at visitors' toilets**

<b>Sl.No</b>	<b>Description</b>	<b>Optimum (mm)</b>	<b>Minimum (mm)</b>
1	Water Closet enclosures	900x1200	750x900
2	Urinals (divided by partition walls)	575x675	500x600

\*In case of space constraint, the minimum sizes may be adopted

**Table 5.16 The recommended areas for different facilities at visitors' toilets**

<b>SL.NO</b>	<b>Sanitary Unit</b>	<b>Dwelling with individual conveniences</b>	<b>Dwelling without individual conveniences</b>
1	Bath Room	One provided with water tap	One for every two tenement
2	Water Closet (W.C)	One	One for every two tenement
3	Sink (or Nahani) in the Floor	One	
4	Water Tap	One	One with drainage arrangement in each tenement one in common bath rooms and common water closet.

**Note:** Where only one water closet is provided in dwelling, the bath and water closet shall be separately accommodated.

**Table 5.17 Sanitation Requirements for Assembly Occupancy Buildings (Cinema, Theatres, Auditoria etc.)**

<b>SL.NO</b>	<b>Sanitary Unit</b>	<b>For Public</b>		<b>For Staff</b>	
		<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
1	Water Closet	One for 100 Persons upto 400 persons. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	One for 15 Persons. Two for 16-35 persons	Two for 1-12 persons. Four for 13-25 persons add at the rate of 1 per 6 persons or part thereof
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One for 50 persons or part thereof		Nil upto 6 persons one for 7-20 persons Two for 21-45 persons	
4	Wash Basins	One for every 200 persons or part thereof	One for every 200 persons or part thereof	One for 1-15 persons Two for 16-35	One for 1-12 persons Two for 13-25
5	Drinking Water Fountain	One per 100 persons or part thereof			
6	Cleaner's Sink	One per Floor			
7	Shower/Bathing	As per trade requirements.			

*Note: i) One water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closets and urinals.*

*ii) It may be assumed that two thirds of the number is males and one third females*

**Table 5.18 Sanitation Requirements for Assembly Buildings (Art, Galleries, Libraries and Museums)**

SL.NO	Sanitary Unit	For Public		For Staff	
		Male	Female	Male	Female
1	Water Closet (W.C)	One for 200 Persons upto 400 persons. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	Two for 1-12 persons. Four for 13-25 persons add at the rate of 1 per 6 persons
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One for 50 persons or part thereof		Nil upto 6 persons one for 7-20 persons Two for 21-45 persons	
4	Wash Basins	One for every 200 persons or part thereof. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	One for every 200 persons or part thereof. For over 200 persons, add at the rate of 1 per 150 persons or part thereof	One for 1-15 persons Two for 16-35	One for 1-12 persons Two for 13-25 persons
5	Cleaner's Sink	One per floor, minimum			
6	Drinking Water Fountain	One per 100 persons or part thereof			
7	Shower/Bath	As per trade requirements.			

**Note:** It may be assumed that two thirds of the numbers are males and one third females.

**Table 5.19 Sanitation Requirements for Restaurants**

Sl. No.	Sanitary Unit	For Public		For Staff	
		Male	Female	Male	Female
1	Water Closet (W.C)	One per 50 seats upto 200 seats. For over 200 seats, add at the rate of 1 per 100 seats or part thereof	One per 25 seats upto 200 seats for over 200 seats, add at the rate of 1 per 50 seats or part thereof	1 for 15 Persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 per - 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41- 57 persons 10 for 58-77 persons 12 for 78-100
2	Ablution Taps	One in each W.C.	One in each W.C.	One in each W.C.	One in each W.C.
3	Urinals	One for 50 persons or part thereof	--	Nil upto 6 persons one for 7-20 persons Two for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons	--

4	Cleaners Sink	<i>One for every water closet</i>
5	Kitchen Sinks & Dish Washer	<i>One per each Kitchen</i>
6	Service Sink	<i>One in the restaurant</i>

**Note:**

- i) It may be assumed that two thirds of the numbers are males and one-third females.
- ii) One water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closets and urinal.

**Table 5.20 Sanitation Requirements for Factories**

S.I.No	Sanitary Unit	For Male Personnel	For female Personnel
1	Water Closet	1 for 15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons For 101 to 200 persons add at rate of 3% From over 200 persons, add at the rate of 2.5%	2 for 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41-57 persons 10 for 58-77 persons 12 for 78-100 persons. For 101 to 200 persons, add at rate of 3% From over 200 persons, add at the rate of 2%
2	Ablution Taps	One in each W.C	One in each W.C
3	Urinals	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 add 3% for over 200 persons add @ 2.5%	
4	Washing Taps with draining arrangement	One for every 25 persons or part thereof	
5	Drinking Water Fountains	One of every 100 persons with a minimum of one on each floor	
6	Baths Preferably Showers	As required for particular trade or occupation	
7	Emergency shower and eye wash fountain	1 per every shop floor per 500 person	

**Note:**

- i) For many trades of a dirty or dangerous character, more extensive provisions are required.
- ii) One water tap with draining arrangement shall be provided for every 50 persons or part thereof in the vicinity of water closet and urinal
- iii) Creche where provided shall be fitted with water closets (One for 10 persons or part thereof), wash basins (1 for 15 persons or part thereof) and drinking water tap with drinking arrangement for every 50 persons or part thereof

**Table 5.21 Sanitation Requirements for Large Stations and Airports**

S.I.No.	Place	W.C. for Males	W.C for Females	Urinals for Males Only
1	Junction Stations, Intermediate Stations and Substations	3 for first 1000 persons, add 1 for subsequent 1000 persons or part thereof	8 for first 1000 persons, add 1 for every additional 1000 persons or part thereof	4 for every 1000 persons, add 1 for every additional 1000 persons or part thereof

2	Terminals Stations and Bus Terminals	4 for first 1000 persons, and 1 for every additional 1000 persons or part thereof	10 for first 1000 person, and 1 for every additional 1000 persons or part thereof	6 for every 1000 persons, and 1 for every additional 1000 persons or part thereof
3	Domestic Airports Minimum For 200 persons For 400 persons For 600 persons For 800 persons For 1000 persons	2* 5 9 12 16 18	*4 16 30 40 52 58	1 per 40 persons or part thereof
4	International Airports For 200 persons For 600 persons For 1000 persons	6 12 18	20 40 58	1 per 40 persons or part thereof

Note:

i) Provision for wash basins, baths including shower stalls, shall be in accordance with part ix section 2-Drainage and Sanitation of National Building Code of India.

\* At least one Indian style water closet shall be provided in each toilet. Assume 60% males and 40% females in any area.

\* At least 50% of females WCs may be Indian pan and 50% EWC.

**Table 5.22 General Standard/Guidelines for Public Toilets in Public Area.**

Public Toilet	On roads and for open areas: At every 1 km, including in parks, plaza, open air theatre, swimming area, car parks, fuel stations. Toilets shall be disabled-friendly and in 50-50 ratio (M/F) Provision may be made as for Public Rooms ( <b>Table 4.10Contd)</b>
Signage	Signboards on main streets shall give directions and mention the distance to reach the nearest public convenience. Toilets shall have multi-lingual signage for the convenience of visitors. Helpline number shall be pasted on all toilets for complaints/queries
Modes	Pay and use or free. In pay and use toilets entry is allowed on payment to the attendant or by inserting coin and user gets 15 minutes.
Maintenance/ Cleaning	The toilet should have both men and women attendants. Alternatively, automatic cleaning cycle covering flush, toilet bowl, seat, hand wash basin, disinfecting of floor and complete drying after each use can be adopted, which takes 40 seconds. Public toilet shall be open 24 hours.

#### **5.3.2.4 Construction Site**

1. At construction sites, one toilet must be provided per 20 employees. In a work zone with between 21 and 199 employees, a toilet seat and one urinal must be provided for every 40 employees. For 200 or more workers, regulations call for a toilet seat and a urinal per 50 workers. The toilet must be located within 200 m or 5-minute walk.

2. Job sites that are not equipped with a sanitary sewer must, unless prohibited by local codes, provide privies, in locations where their use will not contaminate either ground or surface water. Other alternatives to a privy could be chemical toilets, re-circulating toilets, or combustion toilets.

3. Toilets should be cleaned regularly and maintained in good order, running water, must be provided along with soap and individual hand towels.

#### **5.3.2.5 Temporary Camp Toilets**

Toilet facilities shall be provided within 60 m of the, site, which shall not be closer than 15 m of dining area or kitchen. Make sure that toilet area is cleaned at least once per day, it is sanitary, adequately lighted and is employee safe.

#### **5.3.2.6 Special / Contingency Toilets**

A) For Special events like open air theatre, religious/political gatherings, mela, etc. for which there are no permanent toilet facilities, contingency toilets/PSUs shall be provided. The following considerations shall determine the number of toilets to be provided for particular event:

- i) Duration of the event
- ii) Type of crowd
- iii) Weather conditions
- iv) Whether finishing times are staggered if the event has multi-functions and the following guidelines shall be applied with minimum 50 per cent female toilets.

**Table 5.23 Contingency Toilets facilities for Special Events**

<b>S1.No.</b>	<b>Patrons</b>	<b>Toilets</b>	<b>For Males</b>		<b>For Females</b>	
1	<500	1	2	2	6	2
2	<1000	2	4	4	9	4
3	<2000	4	8	6	12	6
4	<3000	6	15	10	18	10
5	<5000	8	25	17	30	17

**B) Special Purpose Toilets:** Special toilet facilities shall be adequately provided in public projects (transport terminals/ healthcare and other public spaces) in million plus cities for the Third gender with appropriate cleanliness arrangements.

#### **5.3.2.7 General guidance for water supply arrangements**

1. For new construction: Provision shall be made for underground tank for the storage of water, having capacity at 200 l. per person with adequate pumping arrangements to supply water to upper floors. Filtered water connection will be allowed only for use of drinking and bathing needs. For other purposes i.e. flushing and gardening etc., the individual shall be required to have own arrangements of tube well water within the premises. While according sanction to Layout Plan, the Authority shall make a special mention that provision for space shall be kept for the construction of underground reservoir of adequate capacity along with booster pumping station.
2. Arrangements as given in 1 above shall also be provided in Group Housing Societies.
3. The plumbing arrangement in case of new constructions shall be made in a way that the potable water shall be used for drinking, cooking & bathing only and for rest of the uses, provision for ground water can be made with dual piping system.
4. Low capacity cistern should preferably be provided instead of normal 12.5 L capacity.
5. Provisions for sustainable methods of Water and Wastewater management and Water harvesting may be referred from **Clause 10.2** in these Bye-Laws.

## **CHAPTER - 6**

### **6. PROVISIONS FOR HIGH RISE DEVELOPMENT**

#### **6.1 General**

Buildings of height 15m and above shall be considered as high rise building.

*Note: These provisions shall be in addition to the **Chapter 3** for plan sanction procedure, general building requirements (low/high) given in **Chapter 4** of this document and structural safety given in **Chapter 6**.*

#### **6.2 Means of access**

- a. A building shall abut on a street or streets or upon spaces directly connected from the street by a hard surface approach road. The width of approach road shall be as prescribed in the Zonal Regulations.
- b. The approach road to the building and open spaces on its all sides shall be as prescribed in the Zonal regulations and wherever vehicular driveways are required to be provided, the same shall be reinforced to ensure safety of the fire equipment and capable of taking the weight of Fire engine, weighing up to 45 ton
- c) The said driveway shall be kept free of obstructions and shall be motorable.
- d. Main entrances to the premises shall be of adequate width to allow easy access to the fire engine and in no case, it shall measure less than 4.5 m. The entrance gate shall fold back against the compound wall of the premises, thus leaving the exterior access way within the plot free for movement of fire service vehicles. If archway is provided over the main entrance the height of the archway shall not be at a height less than 5m.

#### **6.3 Parking Spaces**

- a. The parking spaces shall be provided as per the provisions of Master Plan and Zonal Regulations as prevalent. The location of parking spaces shall be well ventilated.

- b. In case of high-rise buildings parking will be permitted at any/all of the following:
  - i. Basements
  - ii. Stilt floor
  - c. Stacked/ Multi-level/ Automated parking

#### **6.4 Building components**

##### **6.4.1 Doorways**

The doorway requirements shall be as prescribed in **Clause no.5.2.6**

##### **6.4.2 Revolving Doors**

Revolving door shall not be provided as a means of fire exit

##### **6.4.3 Stairways**

- a. A staircase shall not be arranged round a lift shaft.
- b. The staircase shall be ventilated to the atmosphere at each landing and a vent at the top; the vent openings shall be of 0.5 Sq.m in the external wall at the top. If the staircase cannot be ventilated, because of location or other reasons, a positive pressure 50 Pa shall be maintained inside. The mechanism for pressurizing the staircase shall operate automatically with the fire alarm. The roof of the shaft shall be 1 m above the surrounding roof. Glazing or glass bricks if used in staircase, shall have fire resistance rating of minimum 2 hour.
- c. The minimum width of staircase shall be as per **Table 4.3:**
- d. Handrails shall be provided with a minimum height of 0.9m from the center of the tread.
- e. Access to main staircase shall be gained through adequate fire resistance rating specified in **Chapter 11**. Automatic closing doors shall be placed in the enclosing walls of the staircases. It shall be a swing type door opening in the direction of the escape.
- f. No living space, store or other fire risk shall open directly into the staircase or staircases.
- g. External exit door of staircase enclosure at ground level shall open directly to the open spaces or can be reached without passing through any door other than a door provided to form a draught lobby.
- h. The exit sign with arrow indicating the way to the escape route shall be provided at a height of 0.5m from the floor level on the wall and shall be illuminated by electric light connected to corridor circuits. All exit way marking signs should be flushed with the wall and so designed that no mechanical damage shall occur to them due to moving of furniture or other heavy equipment's. Further all landings of floor shall have floor indication boards indicating the number of floor. The floor indication board shall be placed on the wall immediately facing the flight of stairs and nearest to the landing. It shall be of size not less than 0.5x 0.5m and it shall be prominently on the wall facing the staircase.
- i. In case of single staircase it shall terminate at the ground floor level and the access to the basement shall be by a separate staircase. However, the second staircase may lead to basement levels provided the same is separated at ground level by either a ventilated lobby with discharge points at two different ends or through enclosures with fire resistance rating door specified in **Chapter 11** or through a fire protected corridor.

##### **6.4.4 Lifts**

General requirements of lifts shall be as follows:

- a. All the floors shall be accessible for 24 hours by the lifts. The lifts provided in the buildings shall not be considered as a means of escape in case of emergency. In a dual line arrangement (lifts opposite to each other) the lobby may be between 1.5 times to 2.5 times the depth of one car. For in-line (single line) arrangements the lobby may be typically half of the above recommendations.
- b. Grounding switch, at ground floor level, to enable the fire service to ground the lift shall also be provided.
- c. The lift machine room shall be separate and no other machinery shall be installed there in.
- d. Walls of lift enclosures and lift lobby shall have fire rating of 2 hour; as specified in **Chapter 11**; lifts shall have a vent at the top of area not less than 0.2 Sq.m
- e. Lift car door shall have a fire resistance rating of 1 hour.
- f. Lift lobby doors in lift enclosures shall have fire resistance as specified in **Chapter 11**.
- g. Collapsible gates shall not be permitted for lifts and shall have solid doors with fire resistance of at least 1 hour.
- h. If the lift shaft and lobby is in the core of the building, a positive pressure between 25 and 30 Pa shall be maintained in the lobby and a positive pressure of 50 Pa shall be maintained in the

lift shaft. The mechanism for pressurization shall act automatically with the fire alarm; it shall be possible to operate this mechanically also.

i. Lifts if communicating with the basement, the lift lobby of the basements shall be pressurized as suggested in **clause 12.9.1(g)** and **12.9.1(h)** with self-closing door with fire resistance rating as specified in **Chapter 11**. Telephone or other communication facilities shall be provided in lift cars and to be connected to fire control room for the building.

j. Exit from the lift lobby, if located in the core of the building, shall be through a self-closing fire door of half an hour fire resistance.

k. Suitable arrangements such as providing slope in the floor of lift lobby shall be made to prevent water used during firefighting, etc., at any landing from entering the lift shafts.

l. A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the locations of the stairways. Alternate source of power supply shall be provided for all the lifts through a manually operated changeover switch.

m. For Pressurization Specifications of various building components refer NBC Chapter 4 Fire and Life Safety Clause 4.10 Pressurization of Staircases(Protected Escape Routes)

#### **6.4.5 Basements**

##### **6.4.5.1 General requirements**

Basement floors shall be permitted as prescribed in the Zonal Regulations

##### **6.4.5.2 Requirements for High rise development**

a. Each basement shall be separately ventilated. Vents with cross-sectional area (aggregate) not less than 2.5 percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of grills or breakable stall board lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and extracts may be terminated at ground level with stall board or pavement lights, but ducts to convey fresh air to the basement floor level have to be laid. Stall board and pavement lights should be in positions easily accessible to the fire brigade and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.

b. The staircase of basements shall be of enclosed type having fire resistance rating as specified in **Chapter 11**. The staircase shall be situated at the periphery of the basement to be entered at ground level only, from outside open air. The staircase shall communicate with basement through a lobby with self-closing doors with fire resistance rating as per relevant NBC code mentioned above.

c. In multi-storey basements, intake ducts may serve all basement levels, but each basement level and basement compartment shall have separate smoke outlet duct or ducts. Ducts so provided shall have the same fire resistance rating as the compartment itself. Fire rating may be taken as the required smoke extraction time for smoke extraction ducts.

d. Mechanical extractors for smoke venting system from lower basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat / smoke sensitive detectors or sprinklers, if installed, and shall have a considerably superior performance compared to the standard units. It shall also have an arrangement to start it manually.

e. Mechanical extractors shall have an internal locking arrangement, so that extractors shall continue to operate and supply fans for HVAC shall stop automatically with the actuation of fire detectors.

f. Mechanical extractors shall be designated to permit 30 air changes per hour in case of fire or distress call. However, for normal operation, air changes schedule shall be as given in Part 8, Building Services, Section 3, Air-conditioning, Heating and Mechanical Ventilation of National Building Code, 2005.

g. Mechanical extractors shall have an alternative source of supply.

h. Ventilating ducts shall be integrated with the structure and made out of brick masonry or reinforced cement concrete and when this duct crosses the transformer area or electrical switchboard, fire dampers shall be provided.

i. Use of basements for kitchens working on gas fuel shall not be permitted, unless air conditioned. The basement shall not be permitted below the ward block of a hospital/nursing home unless it is fully sprinkled. Building services such as electrical sub-stations, boiler rooms in basements shall comply with the provisions of the Indian Electricity Act / Rules. Boiler room shall be provided at the first basement along the periphery wall with fire resistance rating as specified in **Chapter 11** or shall be separated with the blast wall.

j. If cutouts are provided from basements to the upper floors or to the atmospheres, all sides' cutout openings in the basements shall be protected by sprinkler head at close spacing so as to form a water curtain in the event of a fire.

k. It is essential to make provisions for drainage of any such water on all floors to prevent or minimize water damage of the contents. The drain pipes should be provided on the external wall for drainage of water from all floors. On large area floors, several such pipes may be necessary which should be spaced 30 m apart. Care shall be taken to ensure that the construction of the drain pipe does not allow spread fire / smoke from floor to floor.

#### **6.4.6 Compartmentation**

The building shall be suitably compartmentalized so that fire/smoke remains confined to the area where fire incident has occurred and does not spread to the remaining part of the building. Compartmentation and Pressurization method shall be adopted (as per clause 4.10 of Part 4 of NBC, 2005) to protect escape routes against ingress of smoke, or toxic gases into the escape routes will be prevented. Pressurization shall be adopted for high rise buildings and building having mixed occupancy/multiplexes having covered area more than 500 Sq.m

#### **6.4.7 Ramps**

Ramps shall be provided as prescribed in **Clause 5.2.5**

#### **6.4.8 Corridors**

- a. Exit corridors and passageways shall be of width not less than the aggregate required width of exit doorways leading from them in the direction of travel to the exterior
- b. The minimum width of a corridor in a residential building shall be 1.0 m for single loaded and 1.8 m for double loaded and in all other buildings shall be 1.5m.
- c. Where stairways discharge through corridors and passageways, the height of corridors and passageways shall be not less than 2.4 m.
- d. All means of exit including staircases lifts lobbies and corridors shall be ventilated.

#### **6.4.9 Glass Façade/ Service Ducts/Shfts/ Refuge Area/ Vents**

- a. An Opening to the glass façade of min. width 1.5 m and height 1.5m shall be provided at every floor at a level of 1.2 m from the flooring facing compulsory open space as well as on road side. Construction that complies with the fire rating of the horizontal segregation and has any gap packed with a noncombustible material to withstand thermal expansion and structural movement of the walling without the loss of seal against fire and smoke.
- b. Mechanism of Opening: The openable glass panel shall be either left or right shall have manual opening mechanism from inside as well as outside. Such openable panels shall be marked conspicuously so as to easily identify the openable panel from outside.
- c. Fire seal to be provided at every floor level between the external glazing and building structure.
- d. The glazing used for the façade shall be of toughened (tempered) safety glass as per I.S.2553.
- e. To avoid fire propagation vertically from one floor to another floor, a continuous glass I must be separated internally by a smoke/ fire seal which is of noncombustible material having a fire resistance rating of not less than 2 hours.
- f. Service ducts and shafts shall be enclosed by walls and doors with fire resistance rating (Refer **Clause 12.7.1** of Chapter 12). All such ducts/shafts shall be properly sealed and stopped fire ingress at all floor levels.
- g. A vent opening at the top of the service shaft shall be provided having an area between one-fourth and one-half of the area of the shaft.
- h. The openable vent of minimum 2.5% of the floor area shall be provided. The openable vent can be pop out type or bottom hinged provided with fusible link opening mechanism and shall also be integrated with automatic Smoke Detection System.
- or
- i) Alternate vertical glass panels of the façade shall be openable type with the mechanism mentioned above in order to ventilate the smoke.
- ii) Refuge areas covered with the glass façade shall have all the panels fully openable (either left or right hinged) both from inside as well as outside. Glass quality and Practice of use of Glass in buildings shall have to be in conformity with the **BIS codes** as given in **Table 5.1** below:

<b>IS Code</b>	<b>Specifications</b>
2553(Part 1):1990	Specification for safety glass: Part 1 General purpose ( <i>third revision</i> )
2835:1987	Specification for flat transparent sheet glass ( <i>third revision</i> )
438:1994	Specification for silvered glass mirrors for general purpose( <i>second revision</i> )
5437:1994	Specification for figured rolled and wired glass ( <i>first revision</i> ).
14900:2000	Specification for transparent float glass.
16231 Part 1	General methodology for selection
16231 Part 2	Energy and Light
16231 Part 3	Fire and Loading
16231 Part 4	Safety related to Human Impact

## **6.5 Building Services**

### **6.5.1 Staircase and Corridor Lighting**

- a. The staircase and corridor lighting shall be on separate service and shall be independently connected so as it could be operated by one switch installation on the ground floor, easily accessible to firefighting staff at any time irrespective of the position of the individual control of the light points, if any.
- b. Staircase and corridor lighting shall also be connected to alternate supply from parallel high-tension supply or to the supply from the stand-by generator.
- c. Emergency lights shall be provided in staircase and corridor/ passageway, horizontal exits, refuge area; and all wires and other accessories used for emergency light shall have fire retardant property.

### **6.5.2 Electrical Services**

- a. The electric distribution cables/wiring shall be laid in separate duct the duct shall be sealed at every floor with non-combustible materials having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.
- b. Water mains, telephone cables, intercom cables, gas pipes or any other service line shall not be laid in the duct for electric cables. Use of bus ducts/solid rising mains instead of cables is preferred.
- c. The provision of dedicated telecommunication ducts for all new building proposals is mandatory for conveyance of telecommunication and other data cables.
- d. Separate circuits for water pumps lifts, staircases and corridor lighting and blowers for pressurizing system shall be provided directly from the main switchgear panel (for detailed specifications refer NBC 2005, Chapter 4 Fire and Life Safety).

### **6.5.3 Alternate Source of Electric Supply**

A stand-by electric generator shall be installed to supply power to staircase and corridor lighting circuits, fire lifts, the stand-by fire pumps, pressurization fans and blowers, smoke extraction and damper system in case of failure of normal electric supply. The generator shall be capable of taking starting current of all the machines and circuits stated above simultaneously. If the stand-by pump is driven by diesel engine, the generator supply need not be connected to the stand-by pump.

### **6.5.4 Air-conditioning**

Air-conditioning shall conform to the following:

- a. Escape routes like staircases, common corridors, lift lobbies, etc. shall not be used as return air passage.
- b. The ducting shall be constructed of substantial gauge metal in accordance with good practice.
- c. Wherever the ducts pass through fire walls or floors, the opening around the ducts shall be sealed with materials having fire resistance rating of the compartment.
- d. Where duct crosses a compartment which is fire rated, the ducts shall be fire rated for same fire rating. Further depending on services passing around the duct work, which may get affected in case of fire temperature rising, the ducts shall be insulated.
- e. Metallic ducts shall be used even for the return air instead of space above the false ceiling.
- f. Where plenum is used for return air passage, ceiling and its fixtures shall be of noncombustible material.
- g. The materials used for insulating the duct system (inside or outside) shall be of noncombustible material; glass wool shall not be wrapped or secured by any material of combustible nature.

- h. Air ducts serving main floor areas, corridors, etc. shall not pass through the staircase enclosure.
- i. The air-handling units shall be separate for each floor and air ducts for every floor shall be separated and in no way inter-connected with the ducting of any other floor.
- j. If the air-handling unit serves more than one floor, the recommendations given above shall be compiled with in addition to the conditions given below:
  - i. Proper arrangements by way of automatic fire dampers working on smoke detector / or fusible link for isolating all ducting at every floor from the main riser shall be made.
  - ii. When the automatic fire alarm operates, the respective air-handling units of the air conditioning system shall automatically be switched off.
  - iii. The vertical shaft for treated fresh air shall be of masonry construction.
  - iv. The air filters of the air-handling units shall be of non-combustible materials or fire rated (Refer **Clause 12.7.1** of Chapter 12)
  - v. The air-handling unit room shall not be used for storage of any combustible materials.
  - vi. Inspection panels shall be provided in the main trunk line to facilitate the cleaning of ducts of accumulated dust and to obtain access for maintenance of fire dampers.
  - vii. No combustible material shall be fixed nearer than 150 mm to any duct unless such duct is properly enclosed and protected with non-combustible material (glass wool or spyglass with neoprene facing enclosed and wrapped with aluminum sheeting) at least 3.2 mm thick and which would not readily conduct heat.

#### **6.5.5 Transformers**

- a. If transformers are housed in the building below the ground level it shall be necessarily in the first basement in separate fire resistance room of 4 hours rating. Transformer shall be dry type and shall be kept in an enclosure with walls, doors and cut-outs having fire resistance rating of 4 hour. The room shall necessarily be at the periphery of the basement having separate and direct access from open area at ground floor through a fire escape staircase. The entrance to the room shall be provided with a steel door of 2 hours fire rating. A curb of a suitable height shall be provided at the entrance in order to prevent the flow of oil from ruptured, transformer into other parts of the basement. The switchgears shall be housed in a separate room separated from the transformer bays by a fire-resisting wall with fire resistance not less than 4 hours.
- b. The transformer shall be protected by an automatic foam sprinkler system. When housed at ground floor level it/they shall be cut-off from the other portion of premises by Fire Resisting Walls of 4 hours rating.
- c. A tank of RCC construction of adequate capacity shall be provided at lower basement level, to collect the oil from the catch pit in case of emergency. The pipe connecting the catch-pit to the tank shall be of non-combustible construction and shall be provided with a flame-arrester.
- d. The electric sub-station shall be located in a separate building in accordance to I. E. Rules 68(I) and 64(I) (a).
- e. If this is not possible due to site conditions, the sub-station shall be located on the ground floor. As far as possible sub-station shall not be installed in a basement, for such situations special provisions like mechanical ventilation, wherever required, cable ducting, cable trays, top/bottom entry of HV/LV cable, hooks on Transformer(s) & HV panels, adequate fire detection and firefighting arrangement, adequate drainage, effective measures to prevent flooding etc. shall be provided. Adequate precautions shall also be taken for water proofing to prevent seepage of water. A ramp shall also be provided with a slope, not steeper than 1 in 7, for easy movement of equipment's to and from sub-station.
- f. Fire regulations – The installations shall be carried out in conformity with the local regulations and rules there under wherever they are in force. At other places NBC guidelines shall be followed.

#### **6.5.6 Gas supply**

- a. Town Gas / L.P. Gas Supply Pipes – Where gas pipes are run in buildings, the same shall be run in separate shafts exclusively for this purpose and these shall be on external walls, away from the staircases. There shall be no interconnection of this shaft with the rest of the floors.
- b. LPG distribution pipes shall always be below the false ceiling. The length of these pipes shall be as short as possible. In the case of kitchen cooking range area, apart from providing hood, covering the entire cooking range, the exhaust system should be designed to take care of 30 cum per minute per Sq.m of hood protected area. It should have grease filters using metallic grill to trip oil vapors escaping into the fume hood.

*Note: For detailed information on gas pipe installations, reference may be made to Para.9 'Plumbing Services, Section 3 Gas Supply', of National Building Code of India.*

c. For large/commercial kitchens all wiring in fume hoods shall be of fiberglass insulation. Thermal detectors shall be installed into fume hoods of large kitchens for hotels, hospitals and similar areas located in high rise buildings. Arrangements shall be made for automatic tripping of the exhaust fan in case of fire.

d. If LPG is used, the same shall be shut off. The voltage shall be of 24 V or 100V DC operated with the external rectifier. The valve shall be of the hand re-set type and shall be located in an area segregated from cooking ranges. Valves shall be easily accessible. The hood shall have manual facility for steam or carbon dioxide gas injection, depending on duty condition; and Gas meters shall be housed in a suitably constructed metal cupboard located in a well-ventilated space, keeping in view the fact that LPG is heavier than air and town gas is lighter than air.

#### **6.5.7 Boiler Room**

Further, the following additional aspects may be taken into account in the location of Boiler/Boiler Room:

- a. The boiler shall not be allowed in sub-basement but be allowed in the first basements away from the escape routes.
- b. The boilers shall be installed in a fire resisting room of 4 hours fire resistance rating, and this room shall be situated on the periphery of the basement. Catch pit shall be provided at the low level. Entry to this room may be provided with a composite door of two-hour fire resistance.
- c. The boiler room shall be provided with fresh air inlets and smoke exhausts directly to the atmosphere.
- d. Foam inlets shall be provided on the external walls of the building at the ground floor level to enable the fire services to use foam in case of fire.
- e. The furnace oil tank for the boiler, if located in the adjoining room shall be separated by fire resisting wall of 4-hour rating. Entry to this room shall be provided with a composite door of 2-hour fire resistance. A curb of suitable height shall be provided at the entrance in order to prevent the flow of oil into the boiler room in case of tank rupture.

#### **6.5.8 HeliPad**

Buildings above 200 m in height, helipad may be provided.

#### **6.5.9 Disaster Management / Fire Safety**

Refer **Chapter 11** of this document.

#### **6.5.10 Sustainable Environment and Buildings**

Refer **Chapter 10** of this document

#### **6.5.11 Structural Safety**

As per provisions made for Structural Safety in **Chapter 6**

### **CHAPTER - 7**

## **7. PROVISIONS FOR STRUCTURAL SAFETY**

#### **7.1 Structural design and safety**

For any building under the jurisdiction of these bye-laws structural design/retrofitting shall only be carried out by a registered Structural Engineer on Record (SER) or Structural Design Agency on Record (SDAR). Proof checking of various designs/ reports shall be carried out by competent authority as per **Table 7.1** wherever applicable.

#### **7.1.1 Additional provisions for natural hazard prone areas**

Generally, the structural design of foundations, elements of masonry, timber, plain concrete, reinforced concrete, pre-stressed concrete and structural steel shall conform to the provisions of Part 6: Structural D-sign –

Section- 1 Loads, Forces and Effects

Section- 2 Soils and Foundations,

Section- 3 Timber and Bamboo,

Section- 4 Masonry,

Section- 5 Concrete &

Section- 6 Steel

Section- 7 Prefabrication Systems, Building and Mixed /Composite Construction of National Building Code of India (NBC), taking into consideration the Indian Standards as given below.

### **For General Structural Safety**

- 1) IS: 456:2000 'Code of Practice for Plain and Reinforced Concrete'.
- 2) IS: 800-2007 'Code of Practice for General Construction in Steel'.
- 3) IS: 801-1975 'Code of Practice for Use of Cold Formal Light Gauge Steel Structural Members in General Building Construction'
- 4) IS 875 (Part 2):1987 Design loads (other than earthquake) for buildings and structures Part 2 Imposed Loads.
- 5) IS 875 (Part 3):1987 Design loads (other than earthquake) for buildings and structures Part 3 Wind Loads.
- 6) IS 875 (Part 4):1987 Design loads (other than earthquake) for buildings and structures Part 4 Snow Loads.
- 7) IS 875 (Part 5):1987 Design loads (other than earthquake) for buildings and structures Part 5 special loads and load combination.
- 8) IS: 883:1994 'Code of Practice for Design of Structural Timber in Building.'
- 9) IS: 1904:1986 (R 2005) 'Code of Practice for Structural Safety of Buildings: Foundation'
- 10) IS 1905:1987 'Code of Practice for Structural Safety of Buildings: Masonry Walls.'
- 11) IS 2911(Part 1): Section 1: 2010 'Code of Practice for Design and Construction of Pile Foundation Section 1
  - Part 1: Section 2 Bored Cast-in-situ Piles
  - Part 1: Section 3 Driven Precast Concrete Piles
  - Part 1: Section 4 Bored Precast Concrete Piles
  - Part 2: Timber Piles
  - Part 3: Under Reamed Piles
  - Part 4: Load Test on Piles
- For Cyclone/Wind Storm Protection
  - 12) IS 875 (3):1987 'Code of Practice for Design Loads (other than Earthquake) for Buildings and Structures, Part 3, Wind Loads'
  - 13) Guidelines (Based on IS 875 (3)-1987) for improving the Cyclonic Resistance of Low rise houses and other building.

### **For Earthquake Protection**

- 14) IS: 1893 (Part 1)-2002 'Criteria for Earthquake Resistant Design of Structures(Fifth Revision)'
- 15) IS:13920-1993 'Ductile Detailing of reinforced Concrete structures subjected to Seismic Forces-Code of Practice'
- 16) IS:4326-2013 'Earthquake Resistant Design and construction of buildings code of practice(second revision)'
- 17) IS:13828-1993 'Improving earthquake resistance of low strength masonry buildings-guidelines'
- 18) IS:13827:1993 'Improving Earthquake Resistance of Earthen Buildings-Guidelines'
- 19) IS:13935-2009 'Seismic Evaluation, Repair and Seismic Strengthening of Buildings -Guidelines'

### **For Protection of Landslide Hazard**

- 20) IS 14458 (Part 1): 1998 Guidelines for retaining wall for hill area: Part 1 Selection of type of wall.
- 21) IS 14458 (Part 2): 1997 Guidelines for retaining wall for hill area: Part 2 Design of retaining/breast walls
- 22) IS 14458 (Part 3): 1998 Guidelines for retaining wall for hill area: Part 3 Construction of dry stone walls
- 23) IS 14496 (Part 2): 1998 Guidelines for preparation of landslide – Hazardzonation maps in mountainous terrains: Part 2 Macro-zonation.

Note: Whenever an Indian Standard including those referred in the National Building Code or the National Building Code is referred, the latest revision of the same shall be followed except specific criteria, if any, mentioned above against that code.

#### **7.1.2 Structural Design Basis Report (SDBR)**

In compliance of the design with the above Indian Standard, the Structural Engineer on Record will submit a structural design basis report in the Proforma attached herewith covering the essential safety requirements specified in the Standard.

The 'Structural Design Basis Report (SDBR)' consists of four parts

MHA Expert Committee Report)

Part 1: General Information/ Data

Part 2: Load Bearing Masonry Buildings

Part 3: Reinforced Concrete Buildings

Part 4: Steel Buildings

i) Drawings and Documents to be submitted for approval of appropriate authorities shall include SDBR as detailed below:

Part 1: Completed

Part 2: (if applicable) – completed

Part 3: (if applicable) – undertaking that completed Part 3 will be submitted before commencement of construction.

Part 4: (if applicable) – undertaking that completed Part 4 will be submitted before commencement of construction.

ii) SDBR as detailed below shall be submitted to the appropriate authority as soon as design of foundation is completed, but not later than one month prior to commencement of construction.

Part 1: Completed

Part-2, Part-3 or Part-4: (if applicable) Completed

### **7.1.3 Seismic strengthening/retrofitting**

Prior to seismic strengthening/retrofitting of any existing structure, evaluation of the existing structure as regards structural vulnerability in the specified wind/seismic hazard zone shall be carried out by a RSE/RSDA. If as per the evaluation of the RSE/RSDA the seismic resistance is assessed to be less than the specified minimum seismic resistance as given in the note below, action will be initiated to carry out the upgrading of the seismic resistance of the building as per applicable standard guidelines.

Note:

1. For masonry buildings reference shall be made to IS 4326 and IS 13935

2. For concrete buildings and structures reference shall be made to IS15988: 2013 Seismic evaluation and strengthening of existing RCC buildings.

### **7.1.4 Buildings with Soft Storey**

In case buildings with a flexible storeys, such as the ground storey consisting of open spaces for parking that is 'Stilt buildings' or any other storey with open halls, special arrangements are to be made to increase the lateral strength and stiffness of the soft/open storey such as Steel bracing / Shear walls / Brick infill's between columns. Dynamic analysis of building is to be carried out including the strength and stiffness effects of infill's and inelastic deformations in the members, particularly, those in the soft storey, and the structural members are to be designed accordingly.

Alternatively, the following design criteria are to be adopted after carrying out the earthquake analysis, neglecting the effect of infill walls in other storeys:

- The columns and beams of the soft storey shall be designed for 2.5 times the storey shears and moments, calculated under seismic loads specified in the other relevant clauses; or,
- Besides the columns designed and detailed for the calculated storey shears and moments, shear walls shall be placed symmetrically in both directions of the building as far away from the Centre of the building as feasible; to be designed exclusively for 1.5 times the lateral storey shear force calculated as before. For details of design and provisions, IS 1893, Part 1 shall be referred.

### **7.1.5 Review of structural design**

i. The Competent Authority shall create a Structural Design Review Panel(SDRP) consisting of senior SER's and SDAR's whose task will be to review and certify the design prepared by SER or SDAR whenever referred by the competent authority.

ii. The Reviewing Agency shall submit addendum to the certificate or a new certificate in case of subsequent changes in structural design.

iii. Table-6.1 gives requirements of SDRP for different seismic zones namely III,IV and V and for structures of different complexities.

iv. In seismic Zone II, buildings & structures greater than 40m in height will require proof checking by SDRP as per detail at Sl. no.3 of **Table 7.1**

**Table 7.1 Proof Checking Requirements for Structural Design**

<b>Sl.No</b>	<b>Type of Structure</b>	<b>Submission from SER or SDAR</b>	<b>To be Proof Checked</b>
1.	Load Bearing Buildings up to three storeys	SDBR*	Not to be checked
2.	Buildings up to seven storeys (R.C.C/Steel framed structure)	SDBR	To be checked
		Preliminary design	To be checked

3.	Building greater than seven storeys (R.C.C/Steel framed structure)	SDBR	To be checked
		Preliminary design	To be checked
		Detailed structural design and structural drawing	To be checked
4.	Non-Residential Buildings	SDBR	To be checked
		Preliminary design	To be checked
		Detailed structural design and structural drawing	To be checked

\* SDBR – Structural Design Basis Report

#### Notes:

1. Table 4.1 may be referred for occupant load/live loads for different building types.
2. At the preliminary proposal stage of a project, the objective is to undertake feasibility study/comparison of a number of possible alternatives of structural schemes and determine the most cost effective one, detailed structural calculations are not necessary for each alternative scheme. However, it is necessary to determine the member sizes and reinforcement content in order to determine the cost. By making conservative assumptions it is possible to derive simplified calculations for both analysis and design. **This is called 'Preliminary or approximate analysis, and design'.**

After the most cost effective scheme is selected and signed-off by the Client, the detailed calculations are performed on the selected scheme to determine the precise structural members and composition (size, dimension and stress behavior), and this is called the '**Detailed structural design**'.

In the aforesaid, the design of structural members is typically assumed to account for all the stress loads identified from section xx to be applicable in the given project.

3. Special structure means large span structures such as stadium, assembly halls, or tall structures such as water tanks, TV tower, chimney, etc.

It will be seen from the **Table 7.1** above that there is a wide range of structure typology, and the requirement by the Competent Authority for third party verification will depend on the type of structure.

#### 7.1.6 Certification regarding structural safety in design

Structural Engineer on Record (SER) or Structural Design Agency on Record (SDAR) shall give a certificate of structural safety of design as per proforma given in **Form-XV** (of the MHA Expert Committee Report) at the time of completion (as per **Clause 3.17**)

#### 7.1.7 Constructional safety

##### 7.1.7.1 Supervision

All construction except load bearing buildings up to 3 storeys shall be carried out under supervision of the Construction Engineer on Record (CER) or Construction Management Agency on Record (CMAR) for various seismic zones.

##### 7.1.7.2 Certification of structural safety in construction

CER/ CMAR shall give a certificate of structural safety of construction as per proforma given in **Form-XV** (of the MHA Expert Committee Report) at the time of completion (as per **Clause 3.17**).

#### 7.1.8 Quality control and inspection

All material and workmanship shall be of good quality conforming generally to accepted standards of Public Works Department and Indian standard specification and codes as included in Part-V Building Materials and Part-VII Construction practices and safety of National Building Code of India.

##### 7.1.8.1 Inspection

All the construction for high-rise buildings higher than seven storeys, public buildings and special structures shall be carried out under quality inspection program prepared and implemented under the Quality Auditor on Record (QAR) or Quality Auditor Agency on Record (QAAR) in seismic zones IV &V (as notified by the Government).

##### 7.1.8.2 Certification of safety in quality of construction

Quality Auditor on Record (QAR) or Quality Auditor Agency on Record (QAAR) shall give a certificate of quality control as per proforma given in **Form-XVIII** (as notified by the Government).

Quality Inspection Program to be carried on the site shall be worked out by QAR/QAAR in consultation with the owner, builder, CER / CMAR.

Note: **Clause 7.1.7 and 7.1.8** shall not be applicable for Government buildings that are designed and constructed under the supervision of in-house architects/engineers.

### **7.1.9 Control of signage & outdoor display structures, cell phone towers and telephone Towers.**

Following provisions shall apply for telecommunication infrastructure

a) Location: The Telecommunication Infrastructure shall be either placed on the building roof tops or on the ground or open space within the premises subject to other regulation.

b) Type of structure

i. Steel fabricated tower or antennae on M.S. pole

ii. Pre-fabricated shelters of fiber glass or P.V.C. on the building roof top /terrace for equipment.

iii. Masonry Structure/ Shelter on the ground for equipment.

iv. D.G. set with sound proof cover to reduce the noise level.

c) Requirement:

i. Every applicant has to obtain/ procure the necessary permission from the 'Standing Advisory Committee on Radio Frequency Allocation' (SACFA) issued by Ministry of Telecommunications.

ii. Every applicant will have to produce the structural safety & stability certificate for the tower as well as the building from the Structural Engineer on Record(SER) which shall be the liability of both owner and SER.

iii. Applicant has to produce / submit plans of structure to be erected.

d) Projection: No Pager and/or Telephone Tower shall project beyond the existing building line of the building on which it is erected in any direction.

### **7.2 Inspection**

The general requirement for inspection and certification of the development shall be as prescribed in **Clause no.3.15**

#### **7.2.1 Maintenance of Buildings**

In case of building older than fifty years, it shall be the duty of the owner of a building, to get his building inspected by a Registered Structural Engineer (RSE) within a year from the date of coming into force of these regulations. The Structural Inspection Report (Form No.16, of the MHA Expert Committee Report) shall be produced by the Owner to the Appropriate Authority. If any action, for ensuring the structural safety and stability of the building is to be taken, as recommended by SER, it shall be completed within five years. For other buildings, the owner shall get his building inspected after the age of building has crossed forty years. The procedure shall be followed as per above regulation.

#### **7.2.2 Protective Measures in Natural Hazard Prone areas**

In natural hazard, prone areas identified under the land use Zonal Regulations, structures buildings and installations which cannot be avoided, protective measures for such construction/development should be properly safeguarded based on the suggestion given in the Report of the MHA Expert Committee - Volume I.

#### **7.2.3 Registration of Professionals**

Presently, the legislation for the profession of architecture is applicable in the country in the form of Architects Act 1972, an Act of the Parliament of India. Accordingly, the qualifications, competence and service conditions followed in the profession of architecture are in accordance with the provisions of the said Act and the rules made there under. For other professions and professionals like engineers, structural engineers, landscape architects, urban designers, building supervisors, electrical engineers, developers/promoters there is no legislative frame available/applicable. Therefore, for appropriate qualifications, competence and responsibilities of professional involved in different types of development proposals shall be applicable as notified by the Government: Qualifications and Competence of Professionals and methods of determination of professional fees are suggested in **clause 7.2.4**.

#### **7.2.4 Professional fees for SER/SDAR and CER/CMAR**

Selection of professionals and determination of professional charges shall be done by the Authority, considering the following:

- i. Structural safety of a building is the responsibility of the 'SER/SDAR' for proper design and the 'CER/CMAR' for proper construction, therefore it is imperative that selection and appointment of these professionals is made after verification of their antecedents.
- ii. The fees to be paid to SER/SDAR for structural design may be specified keeping in view the size and complexity of the project.
- iii. Similarly, fees for construction management to CER/CMAR may be specified keeping in view the size and complexity of the project and the duration for which construction management services have to be provided on the basis of the total cost of the project.
- iv. Proof checking: Fees for Proof checking where carried out may vary based on the cost of the structural items enumerated in (ii) above.

#### **7.2.5 Appointment of Professionals**

The Owner/Developer shall appoint Town Planner on Record (TPR), Architect on Record (AR), Engineer on Record (ER), Structural Engineer on Record (SER), Structural Design Agency on Record (SDAR), Geotechnical Engineer on Record (GER), Construction Engineer on Record (CER), (CMAR), and Quality Auditor on Record (QAR) and Quality Audit Agency on Record (QAAR) as required. Details of qualification and requirement of registration shall be as notified by the Government & **Appendix-I**.

Proper written agreement(s), in standard format(s), shall be entered upon with such professional(s) engaged.

#### **7.3 Alternative Materials, Methods of Design and Construction and Tests**

The provision of the Bye-Laws are not intended to prevent the use of any material or method of design or construction not specifically prescribed by the bye-law provided any such alternative has been approved. The building materials approved by B.I.S. or any statutory body will form part of the approved building material and technology as part of the Bye-Laws.

The Authority shall promote and encourage use of Pre-fabricated factory made building components for medium to large scale projects that have significant impact. The use of ready mix concrete (RMC) shall also be encouraged for in-situ concrete constructions.

**Clause 11.2.6** may be referred for further aspects of Sustainability and incentivized promotion of alternative materials, methods in construction.

### **CHAPTER - 8**

#### **8. LAND USE ZONES**

In order to promote public health, safety and the general social welfare of the community, it is necessary to apply control and reasonable limitation on the development of land and buildings. This is to ensure that most appropriate, economical and healthy development of the Town/City takes place in accordance with the land use plan, and its continued maintenance over the years. For this purpose, the city is divided into number of use zones, such as residential, commercial, industrial, public and semi-public etc. Each zone has its own regulations, as the same set of regulations cannot be applied to the entire Town. Zonal Regulations protects residential areas from the harmful invasions of

commercial and industrial uses and at the same time promotes the orderly development of industrial and commercial areas, by suitable regulations on spacing of buildings to provide adequate light, air, protection from fire, etc. It prevents overcrowding in buildings and on land to ensure adequate facilities and services.

Zonal is not retrospective. It does not prohibit the uses of land and buildings that are lawfully established prior to the coming into effect of these Zonal Regulations.

If these uses are contrary to the newly proposed uses, they are termed non-conforming uses and are gradually eliminated over years without inflicting unreasonable hardship upon the property owner.

The Zonal Regulations and its enforcement ensure proper land use and development and form an integral part of the Master Plan. It also ensures solutions to problems of development under local conditions.

The Master Plan along with the Zonal Regulations approved under sub section (3) of section 13 of the Karnataka Town and Country Planning Act, 1961 approved by the Government, time to time shall be applicable.

## **CHAPTER - 9**

### **9. PROVISIONS FOR DIFFERENTLY-ABLED, ELDERLY PERSONS AND CHILDREN**

#### **9.1 Applicability**

These regulations shall be applicable to all buildings and facilities used by the public such as educational, institutional, assembly, commercial, business, mercantile buildings and group housing constructed on plots having an area of more than 2000 Sq.m. It shall not apply to private residential buildings.

#### **9.2 Guidelines and Provisions**

1. *Provisions in the following guidelines shall apply:*
2. ‘*Guidelines and Space Standards for Barrier Free Built Environment for Disabled and Elderly Persons*’, (1998), Central Public Works Department, Goo
3. ‘*Manual on Barrier Free Environment*’, (2002), O/o the Chief Commissioner for Persons with Disabilities, Ministry of Urban Development, Goo.
4. ‘*National Building Code*’, (2005), Bureau of Indian Standards,
5. ‘*National Policy for Persons with Disabilities*’, (2006), Ministry of Social Justice and Empowerment, Goo.
6. ‘*Harmonized Guidelines and Space Standards for Barrier Free Built Environment for Persons with Disabilities and Elderly Persons*’, (Draft 2014), Ministry of urban Development, GoI.

#### **9.3 Types of buildings to adopt barrier free guidelines as notified by the State Government**

##### **9.3.1 Buildings to be designed for Ambulant Disabled People**

Higher Secondary School, Conference Hall, Dance Halls, Youth Centers, Youth Clubs, Sport Centers, Sport Pavilions, Boat Club Houses, Ice Rinks, Bowling Centers, Swimming Pools, Police Stations, Law Courts, Courts Houses, Sport Stadiums, Theatres, Concert Halls, Cinemas, Auditoria, Small Offices (the maximum plinth area 1400 Sq.m) Snack Bars, Cafes and banqueting rooms (for capacity above 50 dinners).

**Note:**

- a. In sport stadiums provisions shall be made for non-ambulant spectators (small wheel chair)
- b. @ 1:1000 up to 10,000 spectators and @ 1:2000 for spectators above 10,000.
- c. In Theatres, Concert Halls, Cinemas and Auditoria provisions shall be made for non-ambulant spectators (Small Wheel Chairs) @ 1/250 up to 1000 spectators and 1/500 for spectators above 1000.

##### **9.3.2 Buildings to be designed for Non-Ambulant Disabled People**

Schools for differently abled, Botanical Gardens, Religious Buildings, Elderly People Clubs, Village Halls, Day Centers, Junior Training Centers, Post Offices, Banks, Dispensaries, Railway Stations, Shops, Super Markets, and Departmental Stores.

**Note:** Large wheel chair criteria shall be applicable on ground floors of the following building, post offices, banks, dispensaries, railway station, shops, supermarkets, and departmental stores.

##### **9.3.3 Buildings to be designed for Non-Ambulant People (using small wheel chairs)**

Public lavatories in Tourist Spots, Clubs, Motels, Professional and Scientific Institution, Museum, Art Galleries, Public Libraries, Laboratories, Universities, College for further Education, Teachers Training Colleges, Technical College, Exhibition Halls, Dentist Surgeries, Administrative Department of the Hospitals, Service Stations, Car Parking Buildings, Airports Terminals, Bus Terminals, Factories Employing differently-abled for sedentary works, Large Offices, (with plinth area above 1400 Sq.mt.), Tax Offices, Passport Offices, Pension Offices, and Labor Offices, Cafes, Banqueting Rooms and Snack Bars (For capacity above 100 dinners).

##### **9.3.4 Site development**

Level of the roads, access paths and parking areas shall be described in the plan along with specification of the materials.

#### **9.3.4.1 Access Path / Walk Way**

Access path from plot entry and surface parking to building entrance shall be minimum of 1800 mm wide having even surface without any steps. Slope, if any, shall not have gradient greater than 5%. Selection of floor material shall be made suitably to attract or to guide visually impaired persons (limited to coloured floor material whose colour and brightness is conspicuously different from that of the surrounding floor material or the material that emits different sound to guide visually impaired persons; hereinafter referred 'o as 'guiding floor material'.

Finishes shall have a non-slip surface with a texture traversable by a wheel chair. Kerbs wherever provided should blend to a common level.

#### **9.3.4.2 Parking**

For parking of vehicles of differently-abled people, the following provisions shall apply:

- a) Surface parking for two car spaces shall be provided near entrance for the physically differently-abled persons with maximum travel distance of 30.0m from building entrance.
- b) The width of parking bay shall be minimum 3.6 meter.
- c) The information stating that the space is reserved for wheel chair users shall be conspicuously displayed.
- d) Guiding floor materials shall be provided or a device, which guides visually impaired persons with audible signals, or other devices, which serves the same purpose, shall be provided.

### **9.4 Building requirements**

The specified facilities in buildings for differently abled persons shall be as follows:

#### **9.4.1 Approach to plinth level**

Every building should have at least one entrance accessible to the differently able and shall be indicated by proper signage. This entrance shall be approached through ramp together with the stepped entry.

**a. Ramped Approach:** Ramp shall be finished with non-slip material to enter the building. Minimum width of ramp shall be 1800mm with maximum gradient 1:12. Length of ramp shall not exceed 9.0 meter having 800mm high hand rail on both sides extending 300mm beyond top and bottom of the ramp. Minimum gap from the adjacent wall to the hand rail shall be 50mm.

**b. Stepped Approach:** For stepped approach size of tread shall not be less than 300mm and maximum riser shall be 150mm. Provision of 800mm high hand rail on both sides of the stepped approach similar to the ramped approach.

**c. Exit/Entrance Door:** Minimum & clear opening of the entrance door shall be 900mm and it shall not be provided with a step that obstructs the passage of a wheelchair user. Threshold shall not be raised more than 12mm.

**d. Entrance Landing:** Entrance landing shall be provided adjacent to ramp with the minimum dimension 1800mm x 2000mm. The entrance landing that adjoins the top of a slope shall be provided with floor materials to attract the attention of visually impaired person's (limited to coloured floor material whose colour and brightness is conspicuously different from that of the surrounding floor material or the material that emits different sound to guide visually impaired persons. Finishes shall have a non-slip surface with a texture traversable by a wheel chair. Kerbs wherever provided should blend to a common level.

#### **9.4.2 Corridor connecting the entrance/ exit for the differently abled**

The corridor connecting the entrance / exit for differently abled leading directly outdoors to a place where information concerning the overall use of the specified building can be provided to visually impaired persons either by a person or by signs, shall be provided as follows:

- a) Guiding floor materials shall be provided or device that emits sound to guide visually impaired persons.
- b) The minimum width shall be 1500mm.
- c) In case there is a difference of level, slope ways shall be provided with a slope of 1:12.
- d) Handrails shall be provided for ramps/slope ways.

### **9.5 Stair-ways**

One of the stair-ways - near the entrance / exit for the differently abled shall have the following provisions:

- a) The minimum width shall be 1350 mm.

- b) Height of the riser shall not be more than 150 mm and width of the tread 300mm. The steps shall not have abrupt (square) nosing.
- c) Maximum number of risers on a flight shall be limited to 12.
- d) Handrails shall be provided on both sides and shall extend 300 mm on the top and bottom of each flight of steps.

### **9.6 Lifts**

Wherever lift is required as per bye-laws, provision of at least one lift shall be made for the wheel chair user with the following cage dimensions of lift recommended for passenger lift of 13 person's capacity of NBC 2005, BIS. Section 4.9.3 Table no1-Desirable Lift size

Clear internal width 1100 mm

Clear internal depth 2000 mm

Entrance door width 900 mm

a) A hand rail not less than 600mm long at 1000mm above floor level shall be fixed adjacent to the control panel.

b) The lift lobby shall be of an inside measurement of 1800 mm x 2000 mm or more.

c) The time of an automatically closing door should be minimum 5 seconds and the closing speed should not exceed 0.25 m/ sec.

d) The interior of the cage shall be provided with a device that audibly indicates the floor, the cage has reached indicates that the door of the cage of entrance/exit is either open or closed.

e) Graphic/Braille signage, as per the Harmonized Guidelines, shall be provided in the lift lobby.

### **9.7 Toilets**

One special W.C. in a set of toilets shall be provided for the use of differently able with essential provision of washbasin near the entrance for the differently abled.

a) The minimum size shall be 1500 mm x 1750 mm.

b) Minimum clear opening of the door shall be 900mm and the door shall swing out.

c) Suitable arrangement of vertical/horizontal handrails with 50mm clearance from wall shall be made in the toilet.

d) The W.C. seat shall be 500mm from the floor.

#### **9.7.1 Provision of WCs in buildings without lift:**

Provision of special W.C. shall be made on all floors for buildings designed for ambulant disabled persons. For buildings designed for non-ambulant disabled special W.C. shall be provided at Ground Floor. Size of W.C. shall depend on the type of wheel chair used by the disabled.

#### **9.7.2 Provisions of WCs in buildings with lift**

Provision of Special W.C. shall be made on all floors. Size will depend on the category of disabled for whom it has been provided.

#### **9.7.3 Toilet Details: For Toilets Designed for Ambulant Disabled**

a) The minimum size of W.C. shall be 1075 x 1650 mm with a minimum depth of 1450 mm from entry door 900 mm.

b) Long handrail on the side closer to W.C. with a clear width between the handrails shall be 900 mm and height of handrails shall be 800 mm from floor level.

c) Minimum size of the clear door opening shall be 780 mm.

#### **9.7.4 For Toilets Designed for Non-Ambulant Disabled Small Wheel Chair:**

The minimum size of W.C. shall be 1350 x 1500 mm with a minimum depth of 1500 mm from entry door. 900 mm long handrail on the side closer to W.C. shall be provided. To provide movement space for wheel chair, W.C. seat shall be fixed towards one side to the opposite adjacent wall. The centerline of W.C. from the adjacent wall shall be 400 mm and minimum 950 mm from the other wall.

Minimum size of the clear door opening shall be 780 mm.

#### **9.7.5 For Toilets Designed for Non-Ambulant Disabled Using Large Wheel Chair:**

The minimum size of W.C. shall be 1500 X 1750 mm with a minimum depth of 1750 mm for entry door. 900 mm long handrail on the side wall closer to W.C. shall be provided. To provide movement space for wheel chair, W.C. seat shall be fixed towards one side of the opposite wall. The centerline of the W.C. from the adjacent wall shall be 400 mm and a minimum of 1100 mm from the other wall. Min. size of clear door opening shall be 860 mm.

### **9.8 Designing for Children:**

In the buildings meant for the pre-dominant use of the children, it will be necessary to suitably alter the height of the handrail and other fittings & fixtures etc.

**Note:** Guiding / Warning Floor Material: The floor material to guide or to warn the visually impaired persons with a change of colour or material texture and easily distinguishable from the rest of the surrounding floor materials. The material with different texture gives audible signals with sensory warning when a person moves on this surface with walking stick. The guiding/warning floor material is meant to give the directional effect or warn a person at critical places. It should be provided in the following areas:

- a. The access path to the building and to the parking area.
- b. The landing lobby towards the information board, reception, lifts, staircases and toilets
- c. Immediately at the beginning/end of walkway where there is a vehicular traffic.
- d. At the location abruptly changing in level or beginning/end of a ramp.
- e. Immediately in front of an entrance/exit and the landing.

### **9.9 Drinking Water:**

Suitable provision of drinking water shall be made for the differently abled near the special toilet provided for them.

### **9.10 Refuge:**

An alternative to immediate evacuation of a building via staircases and/ or lifts is the movement of disabled persons to areas of safety within a building. If possible, they could remain there until the fire is controlled and extinguished or until rescued by the fire fighters.

- a) It is useful to have the provisions of a refuge area, usually at the fire protected stair landing on each floor that can safely hold one or two wheelchairs.
- b) Hand Doorways with clear opening width of 900 mm and regular compliance
- c) Have an alarm switch installed between 900 mm and 1200 mm from floor level.

### **9.11 Proper signage:**

- a) Appropriate identification of specific facilities within a building for the differently abled persons should be done with proper signals.
- b) Visually impaired persons make use of other senses such as hearing and touch to compensate for the lack of vision, whereas visual signals benefit those with hearing disabilities. Signs should be designed and located so that they are easily legible by using suitable letter size (not less than 20 mm high).
- c) For visually impaired persons, information board in brail should be installed on the wall at a suitable height and it should be possible to approach them closely.
- d) To ensure safe walking, there should not be any protruding sign which creates obstruction in walking.
- e) Public Address System may also be provided in busy public areas.
- f) The symbols/information should be in contrasting colour and properly illuminated because people with limited vision may be able to differentiate amongst primary colours.
- g) International Symbol Mark for wheel chair be installed in a lift, toilet, staircase, parking areas, etc., that have been provided for the differently abled.

### **9.12 Public Building regulations:**

In case of design regulations in **Public buildings** (excluding domestic buildings), provisions for differently-abled shall be adopted as per **Appendix-XIV** of the byelaws and according to the **Annex 'D' of Part 3, NBC 2005**.

## CHAPTER - 10

### **10. RAIN WATER HARVESTING**

#### **10.1 Rainwater Harvesting principle:**

The harvesting of rainwater simply involves the collection of water from surfaces on which rain falls, and subsequently storing this water for use. The rainwater collected can be stored for direct use or can be recharged into the underground aquifers. In scientific terms water harvesting (broadly) refers to collection and storage of rainwater from the rooftops. This also restricts evaporation and seepage into building foundations. All buildings having a plot size of 100 Sq.m. or more, while submitting the building plans for sanction, shall mandatorily include the complete proposal of rainwater harvesting.

A rainwater harvesting system consists of:

- i. Roof catchment
- ii. Gutters
- iii. Down pipes
- iv. Rain water/ Storm water drains
- v. Filter chamber
- vi. Storage Tanks/ Pits/ Sumps

vii. Ground Water recharge structures like pit, trench, tube well or combination of above structure.  
Rainwater Harvesting is a way to capture the rain runoff, store that water aboveground or charge the underground aquifers and use it later. This happens naturally in open rural areas. But in congested, over-paved metropolitan cities, there is a need to devise methods to capture the rain water. The rainwater that is incident on the surface/ roof top is guided to bore wells or pits or new/old/ abandoned wells through

Small diameter pipes to recharge the underground water which can be used later whenever required. Rainwater can be harvested to the extent of 55,000 liters per 100Sq. m area per year from rooftops.

### **10.2 Rainwater harvesting techniques:**

There are two main techniques of rain water harvestings.

- a. Storage of rainwater on surface for future use.
- b. Recharge to ground water.

### **10.3 Harvesting provisions in various Building categories:**

All buildings in a city contribute to the rainwater runoff during the monsoon and hence such runoff can be harvested for water reuse/recharge.

Rainwater harvesting in a building site includes storage or recharging into ground of rainwater falling on the terrace or on any paved or unpaved surface within the building site.

The following systems may be adopted for harvesting the rainwater drawn from terrace and the paved surface.

a. Open well of a minimum of 1.00 m dia. and 6.00 m in depth into which rainwater may be channeled and allowed after filtration for removing silt and floating material. The well shall be provided with ventilating covers. The water from the open well may be used for non-potable domestic purposes such as washing, flushing and for watering the garden, etc.

b. Rainwater harvesting for recharge of ground water may be done through a bore well around which a pit of one meter width may be excavated up to a depth of at least 3.00 m and refilled with stone aggregate and sand. The filter drain water may be channeled to the refilled pit for recharging the bore well.

c. An impervious storage tank of required capacity may be constructed in the setback or other than, space and the rainwater may be channeled to the storage tank. The storage tank may be raised to a convenient height above the surface and shall always be provided with ventilating the surface and shall always be provided with ventilating covers and shall have draw off taps suitably place so that the rain water may be drawn off for domestic, washing, gardening and such other purposes. The storage tanks shall be provided with an overflow.

d. The surplus rainwater after storage may be recharged into ground through percolation pits, trenches, or combination of pits and trenches. Depending on the geomorphologic and topographical condition, the pits may be of the size of 1.20 m width x 1.20 m length x 2.00 m to 2.50 m depth. The trenches can be or 0.60 m width x 2.00 m to 6.00 m length x 1.50 m to 2.00 depth. Terrace water shall be channeled to pits or trenches. Such pits or trenches shall be backfilled with filter media comprising the following materials. –

- i. 40 mm stone aggregate as bottom layer up to 50% of the depth;
- ii. 20 mm stone aggregate as lower middle layer up to 20% of the depth;
- iii. Course sand as upper middle layer up to 20% of the depth;
- iv. A thin layer of fine sand as top layer;

v. Top 10% of the pits / trenches will be empty and a splash is to be provided in this portion in such a way that roof top water falls on the splash pad;

vi. Brick masonry wall is to be constructed on the exposed surface of pits /trenches and the cement mortar plastered;

vii. The depth of wall below ground shall be such that the wall prevents losesoil entering into pits / trenches. The projection of the wall above ground shall at least be 15 cm;

viii. Perforated concrete slabs shall be provided on the pits / trenches.

e. If the open space surrounding the building is not paved, the top layer up to a sufficient depth shall be removed land refilled with course sand to allow percolation of rainwater into ground.

The terrace shall be connected to the open well / bore well / storage tank / recharge pit /trench by means of H.D.P.E. / P.V.C. pipes through filter media. A valve system shall be provided to enable the first washings from roof or terrace catchments, as they would contain undesirable dirt. The mouths of all pipes and opening shall be covered with mosquito (insect) proof wire net. For the efficient discharge of rainwater, there shall be at least two rain water pipes of 100 mm dia. for a roof area of 100 Sq.m. Rainwater harvesting structures shall be sited as not to endanger the stability of building or earthwork. The structures shall be designed such that no dampness is caused in any part of the walls or foundation of the building or those of an adjacent building.

#### **10.4 Rain Water Harvesting Provisions for Open spaces in cities**

The open spaces/recreational land use generally constitute regional parks, district parks, playground and stadium, sports complex, monument zones, public parking, Plaza and other public open space. This may be as high as 30% to 50% of the city's geographic area. All such public open spaces above the size of 500 Sq.m. shall have arrangements for complete utilization and capture of storm water with scientific rainwater harvesting arrangements.

Following ideas may also be included:

- i. Well cum Channel cum Percolation pits.
- ii. Use of abandoned bore wells for recharging of ground water
- iii. Artificial or natural Storage of storm water runoff from larger sites.

#### **10.5 Ground Water Recharge**

Recharging of ground water should be made mandatory not only for residential buildings but for all types of buildings, including Group Housing Societies having a plot area more than 500 Sq.m. and above. The Ground Water Recharge should also be mandatory for open spaces like parks, parking, plazas and playgrounds. The harvesting and recharge structures could be constructed by the Authority with the involvement of community based organizations like Resident Welfare Associations.

#### **10.6 Enforcement and Monitoring**

- a. The Authority shall constitute a **Rainwater Harvesting Cell** which will be responsible for enforcement and monitoring of the provisions of Rainwater Harvesting. The cell shall employ qualified persons who are well versed with the interpretation of Building Bye Laws and responsible for enforcement as well as monitoring the functioning of the Rainwater Harvesting System.
- b. The Authority shall include inspection of Rainwater Harvesting Structures before issuing Completion Certificates or NOCs for service connections to the property.
- c. Set an example in the city by ensuring that Rainwater is harvested in the properties assets owned by them including public buildings, markets, centers, parking spaces, roads and parks etc.
- d. The Authority shall also establish a mechanism to monitor 100% of RWH provisions in all the buildings above 1000 Sq.m. with annual physical verification, while buildings less than 1000 Sq.m. can be monitored on the basis of 10% random survey by competent authority.
- e. With regard to open public spaces viz., Parks, playgrounds etc. the implementation of provision rainwater harvesting may be done with the help of Residents Welfare Associations, Community Building Organization and Non-Governmental Organizations.
- f. The Authority shall ensure earmarking budgetary provision for the creation and maintenance of rainwater harvesting structures in public spaces owned and maintained by them, like parking spaces, parks, plazas etc.
- g. The practice of incentives and penalties to promote rain water harvesting shall be formulated by the local authority based on best practices. Authority shall design its own incentive and penalty systems, considering the water level and scarcity.

### **CHAPTER - 11**

#### **11. GREEN BUILDINGS AND SUSTAINABILITY PROVISIONS**

Modern buildings consume about 25 to 30 % of total energy, and up to 30 % of fresh potable water, and generate approximately 40 % of total waste. Sustainable buildings have demonstrated reduction in energy and water consumption to less than half of the present consumption in conventional buildings, and complete elimination of the construction and operational waste through recycling.

*Thus, all buildings on various plot sizes above 100 Sq.m shall comply with the green norms and conform to the requirements mandatory for sanction as mentioned in this chapter.*

These provisions are not specific to any rating system and are not intended to provide single metric indication of overall building performance. These provisions allow the practitioners to easily exercise their engineering judgment in holistically and objectively applying the underlying principles of

sustainability to a development or building facility, considering its functionality and required comfort level.

### **11.1 Provisions and Applicability**

The green building provisions on various plot sizes are indicated in the table below:

**Table 11.1 Provisions and applicability for various plot sizes (Residential and Non-Residential)**

<b>Plot Category</b>	<b>Applicable plot area (Sq.m)</b>	<b>Applicable construction area (Sq.m)</b>	<b>Provisions for Residential</b>	<b>Provisions for Non-Residential</b>
I	Up to 500	--	Nil	Nil
II	500 to 1,000	Upto 500	1(a), 1(b), 2(b), 4(a)	1(a), 1(b), 4(a)
		500 to 2000	1(a), 1(b), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 2(a), 3(c), 4(a)
		Above 2000	1(a), 1(b), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 2(a), 2(b), 3(b), 3(c), 4(a)
	1,000 to 3,000	Upto 500	1(a), 1(b), 1(d), 2(b), 4(a)	1(a), 1(b), 1(d), 4(a)
		500 to 2000	1(a), 1(b), 1(d), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 3(c), 4(a)
		2000 to 5000	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)
		Above 5000	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a)	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a)
III	Above 3,000	Upto 500	1(a), 1(b), 1(d), 2(b), 3(a), 4(a)	1(a), 1(b), 1(d), 3(a), 4(a)
		500 to 2000	1(a), 1(b), 1(d), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 3(c), 4(a)
		2000 to 5000	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)
		Above 5000	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a), 4(b)	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a), 4(b)

\*Note: provisions marked 1(a), 2(b) etc. are as per **Clause 11.2**.

The schemes/ projects formulated on the basis of provisions given in Master plan/ Zonal Development Plan will require approval as indicated:

EIA/ ECC (as per MoEF), NBC (latest), ECBC 2007 or latest, BEE Star rating/ LEED of IGBC/ GRIHA of TERI Certification}

**EIA**- Environmental Impact Assessment Study Report,

**ECC**- Environmental Clearance Certificate,

**MoEF** – Ministry of Environment and Forest,

**NBC** – National Building Code,

**ECBC** – Energy Conservation Building Code,

**BEE** – Bureau of Energy Efficiency,

**LEED** – Leadership in Energy and Environment Design,

**IGBC** –Indian Green Building Council,

**GRIHA** – Green Rating for Integrated Habitat Assessment,

**TERI** – The Energy and Resources Institute.

The prevailing provisions of the above shall be applicable. However, if there are any modification in the same, the modified provisions shall become automatically applicable.

### **11.2 Provisions for Sanction**

#### **1. Water Conservation and Management**

- a) Rain Water Harvesting
- b) Low Water Consumption Plumbing Fixtures
- c) Waste Water Recycle and Reuse
- d) Reduction of Hard cape

## **2. Solar Energy Utilization**

a) Installation of Solar Photovoltaic Panels (detailed at **Clause 11.2.3** below)

b) Installation of Solar Assisted Water Heating Systems

**3. Energy Efficiency (Concept of passive solar design of buildings)(Ref. Table 15.1-3)**

a) Low Energy Consumption Lighting Fixtures (Electrical Appliances – BEE Star and Energy Efficient Appliances)

b) Energy Efficiency in HVAC systems.

c) Lighting of Common areas by Solar energy/ LED devices.

## **4. Waste Management**

a) Segregation of Waste

b) Organic Waste Management

In case owners of properties desire to procure green building ratings from one or more rating bodies, they may suitably incorporate any other provisions if required and additional incentives as notified by the Government, may be availed.

### **11.2.1 Provisions for City and Site level greening**

In alignment with National Sustainable Habitat Mission, the Authority shall encourage augmentation of green cover in the city/plot, by following:

The Urban Greening Guidelines, 2014 and other provisions as given below -

- i. Provision of minimum 1 tree / every 80S.qm of plot area for plot sizes >100S.qm and planted within the setback of the plot.
- ii. Compensatory Plantation for felled/transplanted trees in the ratio 1:3 within the premises under consideration.
- iii. Choice of species for plantation in site and abutting the road to be adopted as per Section 8 of the Urban Green Guidelines, 2014.
- iv. The unpaved area shall be more than or equal to 20% of the recreational open spaces.

### **11.2.2 Water Re-use and Recycling**

All building having a minimum discharge of 10,000 l. and above per day shall incorporate waste water recycling system. The recycled water should be used for horticultural purposes.

### **11.2.3 Roof Top Solar Energy Installations**

Roof top photovoltaic power station, or rooftop PV system, is a photovoltaic system that has its electricity-generating solar panels mounted on the rooftop of residential or commercial buildings. The various components of such a system include photovoltaic modules, mounting systems, cables, solar inverters and other electrical accessories. Rooftop PV systems are faster than other types of renewable power plants. They're clean, quiet, and visually unobtrusive. Table 10.2 below stipulates the Norms for Roof Top Solar PV Installation-

**Table 11.2 Norms for Roof Top Solar PV Installation and generation**

<b>Sl. No.</b>	<b>Category of buildings/area</b>	<b>Area standards</b>	<b>Generation requirement*</b>
<b>Residential</b>			
1	<b>Plotted Housing</b>	For HIG Plots and above	Minimum 5% of connected load or 20W/sqft for 'available roof space **, whichever is less.
2	<b>Group Housing</b>	All proposals, as per Group Housing Norms	Minimum 5% of connected load or 20W/sqft for 'available roof space **, whichever is less.

	<b>All other buildings</b> (Government or Private, defined as per clause 1.16 b to g) (mandatory for buildings having shadow free rooftop area > 50Sq.m)		
3	<b>Educational</b>	Plot size of <b>500 Sq.m and above</b>	Minimum 5% of connected load or 20W/sqft for 'available roof space**', whichever is less.
4	<b>Institutional</b>		
5	<b>Commercial</b>		
6	<b>Industrial</b>		
7	<b>Mercantile</b>		
8	<b>Recreational</b>		

\* Area provisions on roof top shall be @12 Sq.m. per 1KWP, as suggested by Ministry of New and Renewable Energy.

\*\* 'available roof area' = 70% of the total roof size, considering 30% area reserved for residents' amenities.

#### **11.2.4 Installation of Solar Assisted Water Heating System in Buildings**

I. No new building in the following categories in which there is a system of installation for supplying hot water shall be built unless the system of the installation is also having an auxiliary solar assisted water heating system:-

- a) Hospitals and Nursing Home.
- b) Hotels, Lodges, Guest Houses, Group Housing with a plot area of 4000 Sq.m
- c) Hostels of Schools, Colleges and Training Centers with more than 100 Students.
- d) Barracks of armed forces, paramilitary forces and police.
- e) Individual residential buildings having more than 150 Sq.m plinth area.
- f) Functional Buildings of Railway Stations and Air Ports like waiting rooms, retiring rooms, rest rooms, inspection bungalows and catering units.
- g) Community Centers, Banquet Halls, Barat Ghars, Mangal Karyalayas and buildings for similar use.

II. Definitions

i)	'Solar Assisted Water Heating System'	A device to heat water using solar energy as heat source.
ii)	'Auxiliary back-up'	Electricity operated or fuel fired boilers/systems to heat water coming out from solar water heating system to meet continuous requirement of hot water.
iii)	'New Building'	Such buildings of above said categories for which construction plans have been submitted to the Authority for clearance.
iv)	'Existing building'	Such buildings, which are licensed to perform their respective business.

III. Installation of Solar Water Heating System

a) New Buildings: Clearance of plan for the construction of new buildings of the aforesaid categories shall only be given if they have a provision in the building design itself for an insulated pipeline from the rooftop in the building to various distribution points where hot water is required. The building must have a provision for continuous water supply to the solar water heating system. The building should also have open space on the rooftop, which receives direct sunlight. The load bearing capacity of the roof should at least be 50 kg/Sq. All new buildings of above said categories must complete installation of solar water heating systems before obtaining necessary license to commence their business.

b) Existing Buildings: Installation of Solar Assisted Water Heating Systems in the existing building shall be made mandatory at the time of change of use to above said category provided there is a system or installation for supplying hot water.

IV. Capacity: The capacity of solar water heating system to be installed on the building of different categories shall be decided in consultation with the local bodies. The recommended minimum capacity shall not be less than 25 liters per day for each bathroom and kitchen subject to the condition that maximum of 50% of the total roof area is provided with the system.

V. Specifications: Installation of Solar Assisted Water Heating Systems shall conform to BIS specification IS 12933. The solar collectors used in the system shall have the BIS certification mark.

VI. Auxiliary System: Wherever hot water requirement is continuous, auxiliary heating arrangement either with electric elements or oil of adequate capacity can be provided.

### **11.2.5 Sustainable Waste Management**

**Zero Waste** is a concept of waste management and planning approaches that emphasize waste prevention as opposed to end waste management. This means restructuring production and distribution systems, designing and managing products and processes to systematically follow the 3R rule of Reduce, Re-use and Re-cycle the volume of waste, to conserve and recover all used resources, and thereby eliminating all discharges to landfills, and prevent air, water and land pollution.

Zero Waste/ land- fill can be achieved by adopting systematic approach of segregation at source by planning, by collection facilitation and most importantly by creating public awareness.

The green waste can be converted into fuel cakes, kitchen waste into manure, construction & demolition waste into bricks, plastic waste into oil, paper, glass and steel back into the same and all residual inert materials can also be converted into bricks. Achieving zero land-fill is more conveniently possible, if

- The collection is made from house to house and some segregation is done at household level and
- Separate wet and dry bins must be provided at the ground level.
- The recycling is done at decentralized, say, ward or even lower levels.

### **11.2.6 Sustainability of Building Materials**

Sustainability of natural resources for building materials shall be ensured through conservation of available natural resources and use of supplementary materials such as industrial/agricultural by-products, renewable resources, factory made building components and recycled construction and demolition waste. Supplementary building materials (derived or processed waste) shall be suitably used in

combination with conventional resources offers dual advantages in purview of health & environmental benefits.

Use of Factory made pre-fab/pre-cast and recycled components with Green benefits:

- Panels, hollow slabs, hollow blocks-etc. - conservation of materials, less water requirement.
- Fly Ash bricks, Portland Pozzolana cement, Fly ash concrete, phosphor gypsum based walling & roofing panels, particle wood – recycled use of industrial/agricultural by-products. (**Ref. Table 14**)
- Fly ash/ AAC (Autoclaved aerated light weight concrete) panels/ CLC (Cellular light weight concrete) panels- ensures thermal comfort (significant reduction in air conditioning requirement)
- Use of bamboo & rapidly growing plantation timbers- environmental benefits. Local materials are generally suitable for prevailing geo-climatic conditions & have advantage of low transportation cost & time. Sustainable use of building materials shall be encouraged which may combine certain mandatory provisions and incentives.

### **11.3 Various Guidelines for Green Rating systems**

The respective State Governments may prepare their separate **Green Rating** systems for buildings by selectively combining/adopting/amending the provisions between the following guidelines:

- IGBC guidelines by the Confederation of Indian Industries.
- GRIHA guidelines by the Ministry of New and Renewable Energy, GoI. In pursuance of the **National Sustainable Habitat Mission** on Energy Efficiency in Buildings, the Authority shall encourage the provisions of the following Energy efficiency guidelines by certain mandatory provisions and incentives-
- ECBC guidelines prepared by Bureau of Energy Efficiency, Ministry of Power GoI
- Model Energy Efficiency guidelines. (NSMH Sub report by Bureau of Energy Efficiency)

## **CHAPTER - 12**

### **12. FIRE PROTECTION AND FIRE SAFETY REQUIREMENTS**

#### **12.1 Scope**

This part covers the requirements of the fire protection for the multi-storeyed buildings (high rise buildings) and the buildings, which are of 15 m. and above in height and low occupancies of categories such as Assembly, Institutional, Educational (more than two storeyed and built-up area exceeds 1000 Sq.m), Business (where plot area exceeds 500 Sq.m), Mercantile (where aggregate covered area exceeds 750 Sq.m), Hotel, Hospital, Nursing Homes, Underground Complexes, Industrial Storage, Meeting/Banquet Halls, Hazardous Occupancies.

#### **12.2 Procedure for obtaining NOC and Clearance Certificate from DFES**

The procedure of obtaining NOC from Department of Fire & Emergency Services (DFES) is detailed in **clause no. 3.10** and the procedure of obtaining Clearance Certificate is detailed in **Clause no. 3.17**

### **12.3 Renewal of fire clearance**

On the basis of undertaking given by the Applicant and the professional on record, the Chief Fire Officer shall renew the fire clearance in respect of all High-Rise buildings on annual Basis

### **12.4 Fee**

For augmentation of fire service facilities for effecting rescue/firefighting operation in high rise building, fee payable to Chief Fire Officer by the applicant(s) along with sets of plans for obtaining the No Objection Certificate shall be as notified by the Government.

### **12.5 Responsibility of providing Fire Protection & Fire Fighting Measures**

The engaged Competent Professional on record for preparation of plans for NOC and the professional on record for supervising the works (as per **Appendix-I**) of the project shall be responsible for making provisions for fire protection and firefighting measure as provided in this Chapter.

### **12.6 Terminology**

For the purpose of this Chapter all the technical terms shall have the meaning as defined in National Building Code of India, Part-IV, Fire Protection as amended from time to time but for the terms which are defined otherwise in these bye-Laws.

### **12.7 General**

The DFES may insist on suitable provisions in the buildings from fire safety and means of escape point of view depending on the occupancy, height or on account of new developments creating special fire hazard, in addition to the provision of these building bye laws and part IV (Fire Protection) of National Building Code of India, which are not contradicting to the provision of the Zonal Regulations.

#### **12.7.1 Fire Resistance of Types of Constructions / Building Components**

The fire resistance ratings for various types of construction for structural and nonstructural members shall be as given in Table 1 of Part IV of the NBC, 2005. Building elements/components such as walls, columns, beams and floors shall have the requisite fire resistance rating in accordance with the accepted standards at Tables 2 to 18 of Part IV of the NBC.

#### **12.7.2 The following Sections MEANS OF ACCESS**

As provided in Zonal Regulations.

#### ***Provisions of Exterior Open Spaces around the Building:***

As provided in Zonal Regulations

#### **12.7.3 EXIT REQUIREMENT**

As provided in Section 4.2 of Part 4, NBC 2005.

**Type of Exits:** As provided in Section 4.2.1 of Part 4, NBC 2005.

**Number of Size of Exits:** As provided in Section 4.6 of Part 4, NBC 2005.

**Arrangements of Exits:** As provided in Section 4.5 of Part 4, NBC 2005.

**Occupant Load:** As provided in Section 4.3 of Part 4, NBC 2005.

**Capacity of Exit:** As provided in Section 4.4 of Part 4, NBC 2005.

**Staircase Requirements:** As provided in Section 4.9 of Part 4, NBC 2005.

**Minimum Width Provision for Stairways:** As provided in Section 4.9.6 of Part 4, NBC 2005

**Minimum Width Provision for Passageway/Corridors:** As provided in Section 4.8 of Part 4, NBC 2005

**Doorways:** As provided in Section 4.7 of Part 4, NBC 2005

**Stairways:** As provided in Section 4.9 of Part 4, NBC 2005

### **12.8 Fire Escapes or External Stairs:**

- a) Fire escape including Occupant load and Travel distance shall not be taken into account while calculating the number of staircases for a building.
- b) All fire escapes shall be directly connected to the ground.
- c) Entrance to the fire escape shall be separate and remote from internal staircase.
- d) The route to fire escape shall be free of obstructions at all times except the doorway leading to the fire escape which shall have the required fire resistance.
- e) Fire escape shall be constructed of non-combustible materials.
- f) Fire escape stairs shall have straight flight not less than 125 cm wide with 25cm treads and risers not more than 19 cm.

- g) Handrails shall be at a height not less than 100 cm.
- h) Fire escape staircase in the mercantile, business, assembly, hotel buildings above 24 m. height shall be a fire tower and in such a case width of the same shall not be less than the width of the main staircase. No combustible material shall be allowed in the fire tower.

### **12.8.1 Spiral Stairs**

- a) The use of spiral staircase shall be limited to low occupant load and to building height of 9 m.
- b) A spiral stair shall not be less than 150 cm in diameter and shall be designed to give the adequate headroom.

### **12.8.2 Staircase Enclosures**

- a) The external enclosing walls of the staircase shall be of the brick or the R.C.C. construction having fire resistance of not less than two hours. All enclosed staircases shall have access through self-closing door of one-hour fire resistance. These shall be single swing doors opening in the direction of the escape. The door shall be fitted with the check action door closers.
- b) The staircase enclosures on the external wall of the building shall be ventilated to the atmosphere at each landing.
- c) Permanent vent at the top equal to the 5% of the cross-sectional area of the enclosure and openable sashes at each floor level with area equal to 1 to 15% of the cross-sectional area of the enclosure on external shall be provided. The roof of the shaft shall be at least 1 m. above the surrounding roof. There shall be no glazing or the glass bricks in any internal closing wall of staircase. If the staircase is in the core of the building and cannot be ventilated at each landing, a positive of 5-mm. e.g. by electrically operated blower/blowers shall be maintained.
- d) The mechanism for pressurizing the staircase shaft shall be so installed that the same shall operate automatically on fire alarm system/sprinkler system and be provided with manual operation facilities.

### **12.8.3 Ramps**

- a) Ramps of slope of not more than 1 in 8 may be substituted for and shall comply with all the applicable requirements of all required stairways as to enclosure capacity and limiting dimensions. Larger slopes shall be provided for special uses but in no case greater than 1 in 8. For all slopes exceeding 1 in 10 and where the use is such as to involve danger of slipping, the ramp shall be surfaced with approved non-slipping material.
- b) The minimum width of the ramps in the Hospitals shall be 2.4 m. and in the basement using car parking shall be 6.0 m.
- c) Handrails shall be provided on both sides of the ramp.
- d) Ramp shall lead directly to outside open space at ground level or courtyards of safe place.
- e) For building above 24.0 m. in height, access to ramps from any floor of the building shall be through smoke fire check door.
- f) In case of nursing homes, hospitals etc. area exceeding 300 Sq.m at each floor one of the exit facility shall be a ramp of not less than 2.4 m. in width.

### **12.9 Provision of lifts**

- a) Provision of the lifts shall be made for all multi-storeyed building having a height of 15.0 m. and above.
- b) All the floors shall be accessible for 24 hours by the lift. The lift provided in the buildings shall not be considered as a means of escape in case of emergency.
- c) Grounding switch at ground floor level to enable the fire service to ground the lift car in case of emergency shall also be provided.
- d) The lift machine room shall be separate and no other machinery be installed init.

### **12.9.1 Lift Enclosure/lift**

General requirements shall be as follows

- a) Walls of lift enclosures shall have a fire rating of two hours. Lift shafts shall have a vent at the top of area not less than 0.2 Sq.m
- b) Lift motor room shall be located preferably on top of the shaft and separated from the shaft by the floor of the room.
- c) Landing door in lift enclosures shall have a fire resistance of not less than one hour.
- d) The number of lifts in one lift bank shall not exceed four. A wall of two hours fire rating shall separate individual shafts in a bank.
- e) Lift car door shall have a fire resistance rating of 1 hour.

- f) For buildings 15.0 m. and above in height, collapsible gates shall not be permitted for lifts and solid doors with fire resistance of at least one hour shall be provided.
- g) If the lift shaft and lobby is in the core of the building a positive pressure between 25 and 30 pa shall be maintained in the lobby and a possible pressure of 50 pa shall be maintained in the lift shaft. The mechanism for the pressurization shall act automatically with the fire alarm/sprinkler system and it shall be possible to operate this mechanically also.
- h) Exit from the lift lobby, if located in the core of the building, shall be through a self-closing fire smoke check door of one-hour fire resistance.
- i) Lift shall not normally communicate with the basement. If, however, lifts are in communication, the lift lobby of the basement shall be pressurized as in (g) with self-closing door as in (h).
- j) Grounding switch (es), at ground floor level shall be provided to enable the fire service to ground the lifts.
- k) Telephone/talk back communication facilities may be provided in lift cars for communication system and lifts shall be connected to the fire control room of the building.
- l) Suitable arrangements such as providing slope in the floor of the lift lobby shall be made to prevent water used during firefighting, etc. at any landing from entering the lift shafts.
- m) A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the location of the stairways. Floor marking shall be done at each floor on the wall in front of the lift-landing door.
- n) Alternate power supply shall be provided in all the lifts.

### **12.9.2 Fire Lift**

Following details shall apply for a fire lift in addition to above requirements:

- a) To enable fire service personnel to reach the upper floors with the minimum delay, one or more of the lifts shall be so designed so as to be available for the exclusive use of the fireman in an emergency and be directly accessible to every dwelling/let table floor space on each floor.
- b) The lift shall have a floor area of not less than 1.4 Sq.m It shall have a loading capacity of not less than 545 kg. (8 persons lift) with automatic closing doors.
- c) The electric supply shall be on a separate service from electric supply mains in a building and the cables run in a route safe from fire that is within a lift shaft. Lights and fans in the elevator having wooden paneling or sheet steel construction shall be operated on 24-volt supply.
- d) In case of failure of normal electric supply, it shall automatically switch over to the alternate supply. For apartment houses, this changeover of supply could be done through manually operated changeover switch. Alternatively, the lift should be so wired that in case of power failure, it comes down at the ground level and comes to stand still with door open.
- e) The operation of a fire lift shall by a single toggle of two-button switch situated in a glass-fronted box adjacent to the lift at the entrance level. When the switches on landing; call points will become inoperative and the lift will be on car control only or on a priority control device. When the switch is off, the lift will return to normal working. This lift can be used by the occupants in normal times.
- f) The words 'FIRE LIFT' shall be conspicuously displayed in fluorescent paint on the lift landing doors at each floor level.
- g) The speed of the fire lift shall be such that it can reach to the top floor from ground level within one minute.

### **12.10 Basement**

As provided in Chapter- 4 of these Building Bye-Laws.

#### **12.10.1 Requirements**

- i) The access to the basement shall be either from the main or alternate staircase providing access and exit from higher floors. Where the staircase is continue the same shall be enclosed type serving as a fire separation from the basement floor and higher floors. Open ramps shall be permitted if they are constructed within the building line subject to the provision of the (iv).
- ii) In case of basement for office, sufficient number of exit ways and access ways shall be provided with a travel distance not more than 15.0 m. The travel distance in case of dead-end shall be 7.5 m.
- iii) The basement shall be partitioned and in no case compartment shall be more than 500Sq.m and less than 50 Sq.m area except parking. Each compartment shall have ventilation standards as laid down in Bye-Laws separately and independently. The partition shall be made in consultation with Chief Fire Officer.
- iv) The first basement (fully below ground level) can be used for services/parking/other permissible services. Lower basements, if provided, shall exclusively be used for car parking only.

- v) Each basement shall be separately ventilated. Vents with cross-sectional area(aggregate) not less than 2.5 percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of grills or breakable starboard lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and extracts may be terminated at ground level with starboard or pavement lights as before. But ducts to convey fresh air to the basement floor level have to be laid. Starboard and pavement lights should be in positions easily accessible to the firemen and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.
- vi) The staircase of basement shall be of enclosed type having fire resistance of not less than two hours and shall be situated at the periphery of the basement to be entered at ground level only from the open air and in such positions that smoke from any fire in the basement shall not obstruct any exit serving the ground and upper stories of the building and shall communicate with basement through a lobby provided with fire resisting self-closing door of one hour rating. In case of basement being used as car parking only, the travel distance shall be 45 m
- vii) In multi-storeyed basements, intake duct may serve all basements levels, but each basement and basement compartment shall have separate smoke outlet duct or ducts. Mechanical extractors for smoke venting system from lower basement levels shall also be provided. The system shall be of such design as to operate on actuation of smoke, heat sensitive detectors/sprinklers, if installed, and shall have a considerably superior performance compared to the standard units. It shall also have an arrangement to start it manually.
- viii) Mechanical extractors shall have an internal locking arrangement so that extractors shall continue to operate and supply fans shall stop automatically with the actuation of fire detectors. Mechanical extractors shall be designed to permit 30 air changes per hour in case of fire or distress call. However, for normal operation, only 30 air changes or any other convenient factor can be maintained.
- ix) Mechanical extractors shall have an alternate source of power supply.
- x) Ventilating ducts shall be integrated with the structure and made out of brick masonry or RCC as far as possible and when this duct crosses the transformer area of electrical switchboard, fire dampers shall be provided.
- xi) Kitchens working on gas fuel shall not be permitted in basement/sub-basement.
- xii) If cutouts are provided from basement to the upper floors or to the atmosphere, all side cutout openings in the basements shall be protected by sprinkler headset closed spacing so as to form a water curtain in the event of a fire.
- xiii) Dewatering pump shall be provided in all bases.

### **12.11 Provision of helipad**

All high-rise buildings of height 200 m. and above shall have provision for a Helipad as per **clause no 6.5.8** of the Bye-Laws. The same shall be approved by the Authority.

### **12.12 Service ducts/refuge chute**

- a) Service duct shall be enclosed by walls and door, if any, of 2 hours fire rating. If ducts are larger than 10 Sq.m the floor should seal them, but provide suitable opening for the pipes to pass through, with the gaps sealed.
- b) A vent opening at the top of the service shaft shall be provided between one fourth and one-half of the area of the shaft. Refuge chutes shall have an outlet at least of wall of non-combustible material with fire resistance of not less than two hours. They shall not be located within the staircase enclosure or service shafts or air-conditioning shafts. Inspection panel and door shall be tight fitting with 1 hour fire resistance; the chutes should be as far away as possible from exits.
- c) Refuge chutes shall not be provided in staircase walls and A/C shafts etc.

### **12.13 Electrical services**

Electrical Services shall conform to the following:

- a) The electric distribution cables/wiring shall be laid in a separate duct shall be sealed at every floor with non-combustible material having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.
- b) Water mains, telephone wires, inter-com lines, gas pipes or any other service lines shall not be laid in ducts for electric cables.
- c) Separate conduits for water pumps, lifts, staircases and corridor lighting and blowers for pressuring system shall be directly from the main switch panel and these circuits shall be laid in separate conduit pipes, so that fire in one circuit will not affect the others. Master switches controlling essential service circuits shall be clearly labeled.

- d) The inspection panel doors and any other opening in the shaft shall be provided with airtight fire doors having fire resistance of not less than 1 hour.
- e) Medium and low voltage wiring running in shafts, and within false ceiling shall run in metal conduits. Any 230 voltage wiring for lighting or other services, above false ceiling should have 660V grade insulation. The false ceiling including all fixtures used for its suspension shall be of non-combustible material.
- f) An independent and well-ventilated service room shall be provided on the ground floor with direct access from outside or from the corridor for the purpose of termination of electrical supply from the licensed service and alternative supply cables. The doors provided for the service room shall have fire resistance of not less than 1 hour.
- g) Miniature circuit breakers (MCB) and Earth leakage circuit breaker (ELCB) shall be provided for electrical circuit.

#### **12.14 Staircase and corridor lights**

The staircase and corridor lighting shall be on separate circuits and shall be independently connected so that it could be operated by one switch installation on the ground floor easily accessible to firefighting staff at any time irrespective of the position of the individual control of the light points, if any. It should be of miniature circuit breaker type of switch so as to avoid replacement of fuse in case of crisis.

- a) Staircase and corridor lighting shall also be connected to alternate source of power supply.
- b) Suitable arrangement shall be made by installing double throw switches to ensure that the lighting installed in the staircase and the corridor does not get connected to two sources of supply simultaneously. Double throw switch shall be installed in the service room for terminating the standby supply.
- c) Emergency lights shall be provided in the staircase and corridor.

#### **12.15 Air-conditioning**

- a) Air-conditioning system should be installed and maintained so as to minimize the danger of spread of fire, smoke or fumes thereby from one floor of fire area to another or from outside into any occupied building or structure. –
- b) Air-Conditioning systems circulating air to more than one floor area should be provided with dampers designed to close automatically in case of fire and thereby prevent spread of fire or smoke. Such a system should also be provided with automatic controls to stop fans in case of fire, unless arranged to remove smoke from a fire, in which case these should be designed to remain in operation.
- c) Air-conditioning system serving large places of assembly (over one thousand persons), large departmental stores, or hostels with over 100 rooms in a single block should be provided with effective means for preventing circulation of smoke through the system in the case of fire in air filters or from other sources drawn into the system even though there is insufficient heat to actuate heat smoke sensitive devices controlling fans or dampers. Such means shall consist of approved effective smoke sensitive controls.

##### **12.15.1 Air-Conditioning should conform to the following:**

- a) Escape routes like staircase, common corridors, lift lobbies; etc. should not be used as return air passage.
- b) The ducting should be constructed of metal in accordance with BIS 655:1963
- c) Wherever the ducts pass through fire walls or floor, the opening around the ducts should be sealed with fire resisting material of same rating as of walls/floors.
- d) Metallic ducts should be used even for the return air instead of space above the false ceiling.
- e) The material used for insulating the duct system (inside or outside) should be of flame resistant (IS 4355: 1977) and non-conductor of heat.
- f) Area more than 750 Sq.m on individual floor should be segregated by a firewall and automatic fire dampers for isolation should be provided.
- g) In case of more than one floor, arrangement by way of automatic fire dampers for isolating the ducting at every floor from the floor should be made. Where plenums used for return air passage, ceiling and its features and air filters of the air handling units, these should be flame resistant. Inspection panels should be provided in the main trenching. No combustible material should be fixed nearer than 15 cm. to any duct unless such ducting is properly enclosed and protected with flame resistant material
- h) In case of buildings more than 24 m. in height, in non-ventilated lobbies, corridors, smoke extraction shaft should be provided.

### **12.15.2 Fire Dampers**

- a) These shall be located in air ducts and return air ducts/passages at the following points:
  - i) At the fire separation wall.
  - ii) Where ducts/passages enter the central vertical shaft.
  - iii) Where the ducts pass through floors.
  - iv) At the inlet of supply air duct and the return air duct of each compartment on every floor.
- b) The dampers shall operate automatically and shall simultaneously switch off the air-handling fans. Manual operation facilities shall also be provided.

*Note: For blowers, where extraction system and dust accumulators are used, dampers shall be provided.*

- c) Fire/smoke dampers (for smoke extraction shafts) for building more than 24 main height. For apartment houses in non-ventilated lobbies/corridor operated by detection system and manual control sprinkler system. For other buildings on operation of smoke/heat detection system and manual control/sprinkler system.
- d) Automatic fire dampers shall be so arranged so as to close by gravity in the direction of air movement and to remain tightly closed on operation of a fusible link.

### **12.16 Boiler Room**

Provisions of boiler and boiler rooms shall conform to Indian Boiler Act, 2007.

Further, the following additional aspects may be taken into account in the location of boiler/boiler room -

- a) The boiler shall not be allowed in sub-basement, but may be allowed in the basement away from the escape routes.
- b) The boilers shall be installed in a fire resisting room of 4 hours' fire resistance rating, and this room shall be situated on the periphery of the basement. Catch pits shall be provided at the low level.
- c) Entry to this room shall be provided with a composite door of 2 hours' fire resistance.
- d) The boiler room shall be provided with fresh air inlets and smoke exhaust directly to the atmosphere.
- e) The furnace oil tank for the boiler if located in the adjoining room shall be separated by fire resisting wall of 4 hours rating. The entrance to this room shall be provided with double composite doors. A curb of suitable height shall be provided at the entrance in order to prevent the flow of oil into boiler room in case of tank rupture.
- f) Foam inlets shall be provided on the external walls of the building near the ground level to enable the fire services to use foam in case of fire.

### **12.17 Alternate source of electric supply**

A stand by electric generator shall be installed to supply power to staircase and corridor lighting circuits, lifts detection system, fire pumps, pressurization fans and blowers, Public Address (PA) system, exit sign, smoke extraction system, in case of failure of normal electric supply. The generator shall be capable of taking starting current of all the machines and circuits stated above simultaneously. If the standby

pump is driven by diesel engine; the generator supply need not be connected to the standby pump. The generator shall be automatic in operation.

### **12.18 Safety measures in electric sub-station**

- 1) Clear independent approach to the sub-station from outside the building shall be made available round the clock
- 2) The approaches/corridors to the sub-station area shall be kept clear for movement of men and material at all times.
- 3) The sub-station space is required to be provided with proper internal lighting arrangements.
- 4) In addition to natural ventilation proper ventilation to the sub-station area is to be provided by grill shutters and exhaust fans at suitable places so as to discharge all smoke from the sub-station without delay in case of fire so that sub-station operations can be carried out expeditiously.
- 5) Cable trenches of 0.6 m. X 0.6 m. dummy floor of 0.6 m. depth shall be provided to facilitate laying of cable inside the building for connecting to the equipment.
- 6) Steel shutters of 8'X 8' with suitable grills shall be provided for transformers and sub-station room.
- 7) The floor of the sub-station should be capable of carrying 10 tons of transformer weight on wheels.
- 8) Built up substation space is to be provided free of cost.

- 9) Sub-station space should be clear from any water, sewer, air conditioning, and gas pipe or telephone services. No other service should pass through the sub-station space or the cable trenches.
- 10) Proper ramp with suitable slope may be provided for loading and unloading of the equipment and proper approach will be provided.
- 11) RCC pipes at suitable places as required will be provided for the cable entries to the sub-station space and making suitable arrangement for non-ingress of water through these pipes.
- 12) The sub-station space is to be provided in the approved/sanctioned covered area of the building.
- 13) Any other alteration /modification required while erection of the equipment will be made by the Owner / builder at site as per requirement.
- 14) Adequate arrangement for fixing chain pulley block above the fixing is available for load of 15 tons.
- 15) Provision shall be kept for the sumps so as to accommodate complete volume of transformer oil, which can spillover in the event of explosion of the transformer in the basement of the building. Sufficient arrangement should exist to avoid fire in the sub-station building from spread of the oil from the sumps.
- 16) Arrangement should be made for the provision of fire retardant cables so as to avoid chances of spread of fire in the sub-station building.
- 17) Sufficient pumping arrangement should exist for pumping the water out, in case of fire so as to ensure minimum loss to the switchgear and transformer.
- 18) No combustible material should be stacked inside the substation premises or in the vicinity to avoid chances of fire.
- 19) It should be made mandatory that the promoters of the multi-storeyed building should get substation premises inspected once a year to get their license revalidated for the provision of electric supply from Electricity Board so that suitable action can be taken against the Owner / Builder in case of non- implementation of Bye-Laws.
- 20) The sub-station must not be located below the 1st basement and above the ground floor.
- 21) The sub-station space should be totally segregated from the other areas of the basement by fire resisting wall. The ramp should have a slope of 1:10 with entry room ground level. The entire Sub-station space including the entrance aground floor is handed over to the licensee of electricity free of cost and rent.
- 22) The sub-station area shall have a clear height of 15 feet (4.5 m.) below beams. Further the Sub-station area will have level above the rest of basement level by 2 feet.
- 23) It is to be ensured that the Sub-station area is free of seepage / leakage of water.
- 24) The licensee of electricity will have the power to disconnect the supply of the building in case of violation of any of the above points. However, provision of emergency lights has to be made in the sub-station for emergency operations.
- 25) Electric sub-station enclosure must be completely segregated with 4-hoursfire rating wall from remaining part of basement.
- 26) The sub-station should be located on periphery /sub-basement and (not aboveground floor).
- 27) Additional exit shall be provided if travel distance from farthest corner tramp is more than 15 m.
- 28) Perfect independent vent system 30 air changes per hour linked with detection as well as automatic high velocity water spray system shall be provided.
- 29) All the transformers shall be protected with Nitrogen Injection System Carbon Dioxide total flooding system in case of oil filled transformer. In addition to this, manual control of auto high velocity spray system for individual transformers shall be located outside the building at ground floor.
- 30) Suitable arrangement for pump house, water storage tanks with main electrical pump and a diesel-operated pump shall be made if no such arrangement is provided in the building. In case the water pumping facilities are existing in the building for sprinkler system, the same should however be utilized for high velocity water spray system. Alternatively, automatic CO2 total flooding system shall be provided with manual controls outside the electric sub-station.
- 31) System shall have facility to give an audio alarm in the basement as well as at the control room.
- 32) Fire control room shall be manned round the clock.
- 33) The electric sub-station shall have electric supply from alternate source for operation of vent System lighting arrangements.
- 34) Cable trenches shall be filled with sand.
- 35) Partition walls shall be provided between two transformers as per the rules.
- 36) Electric control panels shall be segregated.
- 37) Exits from basement electric substation shall have self-closing fire smoke check doors of 2-hours fire rating near entry to ramp.
- 38) All openings to lower basement or to ground floor shall be sealed properly.

- 39) Yearly inspection shall be carried out by electrical load sanctioning Authority.
- 40) Ramp to be designed in a manner that in case of fire no smoke should enter the main building.
- 41) Electric sub-station transformer shall have clearance on all sides as per MBBL/relevant electric rules.
- 42) Other facility will be as per Building Bye-Laws and relevant electric rules.
- 43) Rising electrical mains shall consist of metal bus bars suitably protected from safety point of view.
- 44) Oil less transformer shall be preferred. If the sub-station is located in basement / ground floor of the main building, the transformers shall be essentially of dry type. In case of dry type transformer room with wall enclosure is not essential.

*Note: The sub-station installations shall be carried out in conformity with the local fire regulations and rules there under wherever they are in force. At other places NBC guidelines shall be followed.*

### **12.19 Fire protection requirements**

Buildings shall be planned, designed and constructed to ensure fire safety and this shall be done in accordance with part IV Fire Protection of NBC, 2005 of India, unless otherwise specified in the Zonal Regulations and these Bye-Laws. In the case of High Rise buildings NOC & Clearance Certificate has to be obtained from DFES.

#### **12.19.1 First Aid /Fixed Fire Fighting /Fire Detection Systems and other Facilities**

Provision of fire safety arrangement for different occupancy from. Sl.No. 1 to 23 as indicated below shall be as per **Annexure ‘B-I’ ‘B-II’ & ‘B-III’**.

1. Access
2. Wet Riser
3. Down Comer
4. Hose Reel
5. Automatic Sprinkler System
6. Yard Hydrant
7. U.G. Tank with Draw off Connection
8. Terrace Tanks
- 9 Fire Pump
10. Terrace Pump
11. First Aid Fire Fighting Appliances
12. Auto Detection System
13. Manual operated Electrical Fire Alarm System
14. P.A System with talk back facility
15. Emergency Light
16. Auto D.G. Set
17. Illuminated Exit Sign
18. Means of Escape
19. Compartmentation
20. MCB /ELCB
21. Fire Man Switch in Lift
22. Hose Boxes with Delivery Hoses and Branch
23. Pipes Refuge Area

##### **12.19.1.1 Note for Annexure ‘B-I’ ‘B-II’ & ‘B-III’**

1. Where more than one riser is required because of large floor area, the quantity of water and pump capacity recommended in these Annexure should be finalized in consultation with Chief Fire Officer.
2. The above quantities of water shall be exclusively for firefighting and shall note utilized for domestic or other use.
3. A facility to boost up water pressure in the riser directly from the mobile pump shall be provided in the wet riser, down comer system with suitable fire service inlets (collecting head) with 2 to 4 numbers of 63 mm inlets for 100-200 mm dia. main, with check valve and a gate valve.
4. Internal diameter of rubber hose for reel shall be minimum 20 mm. A shut off branch with nozzle of 5 mm. size shall be provided.
5. Fire pumps shall have positive suctions. The pump house shall be adequately ventilated by using normal/mechanical means. A clear space of 1.0 m. shall be kept in between the pumps and enclosure for easy movement/maintenance. Proper testing facilities and control panel etc. shall be provided.
6. Unless otherwise specified in Bye-Laws, the firefighting equipment's/ installation shall conform to relevant Indian Standard Specification.

7 In case of mixed occupancy, the firefighting arrangement shall be made as per the highest class of occupancy, unless fire separation walls are provided between different occupancies.

8. Requirement of water based first aid fire extinguishers shall be reduced to half if hose reel is provided in the Building.

### **12.20 Static water storage tank**

a) A satisfactory supply of water exclusively for the purpose of firefighting shall always be available in the form of underground static storage tank with capacity specified in **Annexure-'A'** with arrangements of replenishment by town's main or alternative source of supply @ 1000 liters per minute. The static storage water supply required for the above mentioned purpose should entirely be accessible to the fire tenders of the local fire service. Provision of suitable number of manholes shall be made available for inspection repairs and insertion of suction hose etc. The covering slab shall be able to withstand the vehicular load of 45 tons in case of high rise and 22 tons in case of low rise buildings. A

draw off connection shall be provided. The slab need not strengthened if the static tank is not located in mandatory seat- back area.

b) To prevent stagnation of water in the static water tank the suction tank of the domestic water supply shall be fed only through an over flow arrangement to maintain the level therein at the minimum specified capacity.

c) The static water storage tank shall be provided with a fire brigade collecting branching with 4 Nos. 63mm dia. instantaneous male inlets arranged in a valve box with a suitable fixed pipe not less than 15 cm dia. to discharge water into the tank. This arrangement is not required where down comer is provided.

### **12.21 Automatic sprinklers**

Automatic sprinkler system shall be installed in the following buildings:

a) All buildings of 24 m. and above in height, except group housing and 45m and above in case of apartment /group housing society building.

b) Hotels below 15 m. in height and above 1000 Sq.m built up area at each floor and or if basement is existing.

c) All hotels, mercantile, and institutional buildings of 15 m. and above.

d) Mercantile buildings having basement more than one floor but below 15 m.(floor area not exceeding 750 Sq.m)

e) Underground Shopping Complex.

f) Underground car / scooter parking /enclosed car parking.

g) Basement area 200 Sq.m and above.

h) Any special hazards where the Chief Fire Officer considers it necessary.

i) For buildings up to 24 m. in height where automatic sprinkler system is not mandatory as per these Bye-Laws, if provided with sprinkler installation following relaxation may be considered.

ii) Automatic heat/smoke detection system and M.C.P. need not be insisted upon.

iii) The number of Fire Extinguisher required shall be reduced by half.

### **12.22 Fixed Carbon di-oxide /Foam/DCO water spray extinguishing system**

Fixed extinguishing installations shall be provided as per the relevant specifications in the premises where use of above extinguishing media is considered necessary by the Chief Fire Officer.

### **12.23 Fire alarm system**

All buildings of 15 m. and above in height shall be equipped with fire alarm system, and also residential buildings (Dwelling House, Boarding House and Hostels) above 24 m. height.

a) All residential buildings like dwelling houses (including flats) boarding houses and hostels shall be equipped with manually operated electrical fire alarm system with one or more call boxes located at each floor. The location of the call boxes shall be decided after taking into consideration their floor without having to travel more than 22.5 m.

b) The call boxes shall be of the break glass type without any moving parts, where the call is transmitted automatically to the control room without any other action on the part of the person operating the call boxes.

c) All call boxes shall be wired in a closed circuit to a control panel in a control room, located as per Bye-Laws so that the floor number from where the callbox is actuated is clearly indicated on the control panel. The circuit shall also include one or more batteries with a capacity of 48 hours normal working at full load. The battery shall be arranged to be a continuously trickle charged from the electric mains.

- d) The call boxes shall be arranged to sound one or more sounders so as to ensure that all occupants of the floor shall be warned whenever any call box is actuated.
- e) The call boxes shall be so installed that they do not obstruct the exit ways and yet their location can easily be noticed from either direction. The base of the call box shall be at a height of 1.5 m. from the floor level.
- f) All buildings other than as indicated above shall, in addition to the manually operated electrical fire alarm system, be equipped with an automatic fire alarm system.
- g) Automatic detection system shall be installed in accordance with the relevant standard specifications. In buildings where automatic sprinkler system is provided, the automatic detection system may not be insisted upon unless decided otherwise by the Chief Fire Officer

*Note: The installation of Fire Alarm Systems shall be carried out in conformity with the local fire regulations and rules, there under whenever they are in force and the provisions in local byelaws, if any. Several types of fire detectors are available in the market but the application of each type is limited and has to be carefully considered in relation to the type of risk and the structural features of the building where they are to be installed.*

#### **12.24 Control Room**

There shall be a control room on the entrance floor of the building with communication system (suitable public address system) to all floors and facilities for receiving the message from different floors. Details of all floor plans along with the details of firefighting equipment and installation shall be maintained in the Control Room. The Control Room shall also have facility to detect the fire on any floor through indicator boards connecting fire detection and alarm system on all floors. The staff in charge of the Control Room shall be responsible for the maintenance of the various services and firefighting equipment and installation. The Control Room shall be manned round the clock by trained firefighting staff.

#### **12.25 Fire drills and fire orders**

The guidelines for fire drill and evacuation etc. for high-rise building may be seen in **Appendix (B)** of NBC 2005 part IV. All such buildings shall prepare the fire orders duly approved by the Chief Fire Officer.

A qualified fire officer and trained staff shall be appointed for the following buildings:

- a) All high rise buildings above 30 m. in height where covered area of one floor exceeds 1000 Sq.m except apartments / group housing.
- b) All hotels, identified under classification 3 star and above category by Tourism Department and all hotels above 15 m. in height with 150 beds capacity or more without star category.
- c) All hospital building of 15 m. and above or having number of beds exceeding 100.
- d) Underground shopping complex where covered area exceeds 1000 Sq.m
- e) All high hazard industries.
- f) Any other risk which Chief Fire Officer considers necessary.

The lightening protection warning light (red) for high-rise buildings shall be provided in accordance with the relevant standard. The same shall be checked by electrical department.

#### **12.26 Material used for construction of building**

- a) The combustible/flammable material shall not be used for partitioning, wall paneling, false ceiling etc. Any material giving out toxic gases/smoke if involved in the fire shall not be used for partitioning of a floor or wall paneling or a false ceiling etc. The surface frames spread of the lining material shall conform to class- I of the standard specification. The framework of the entire false ceiling would be provided with metallic sections and no wooden framework shall be allowed for paneling/false ceiling.
- b) Construction features/elements of structures shall conform to National Building Code and BIS code.

#### **12.27 Liquefied Petroleum Gas (LPG)**

The use of LPG shall not be permitted in the high-rise building except residential/hotel/hostel/kitchen/pantry (if any) and shall be located at the periphery of the building on the ground level.

#### **12.28 House keeping**

A high standard of housekeeping must be insisted upon by all concerned. There must be no laxity in this respect. It must be borne in mind that fire safety independent to a large extent upon good housekeeping.

### **12.28.1 Good House-Keeping includes the following: -**

- a) Maintaining the entire premises in neat and clean condition.
- b) Ensuring that rubbish and combustible material are not thrown about or allowed to accumulate, even in small quantity, in any portion of the building. Particular attention must be paid to corners and places hidden from view.
- c) Providing metal receptacles/waste paper basket (of non-combustible material) at suitable locations for disposal of waste. Separate receptacles must be provided for disposal of cotton rags/waste, wherever it is generated, these must under no circumstances be left lying around in any portion of the building.
- d) Ensuring that receptacles for waste are emptied at regular intervals and the waste removed immediately for safe disposal outside the building.
- e) Ensuring that all doors/fixtures are maintained in good repairs, particular attention must be paid to self-closing fire smoke check doors and automatic fire/doors/rolling shutters.
- f) Ensuring that self-closing fire/smoke check doors close properly and that the doors are not wedged open.
- g) Ensuring that the entire structure of the building is maintained in good repairs.
- h) Ensuring that all electrical and mechanical service equipment's are maintained in good working condition at all times.
- i) Ensuring that Cars /Scooters etc. are parked systematically in neat rows. It is advisable to mark parking lines on the ground in the parking areas near the building and in the parking area on ground floor and in basement(s); as applicable, inside the building. A parking attendant must ensure that vehicles are parked in an orderly manner and that the vehicles do not encroach upon the open space surrounding the building.

### **12.28.2 Smoking Restrictions**

- a) Smoking shall be prohibited throughout the basement(s) and in all areas where there is a profusion of combustible materials. Easily readable 'NO SMOKING' signs must be conspicuously posted at locations where they can catch the eye. Each sign must also include a pictograph. The sign may also be illuminated.
- b) In all places where smoking is permitted.

### **12.28.3 Limiting the Occupant Load in Parking and Other Areas of Basement(s)**

Where parking facility is provided in the basement(s) no person other than the floor parking attendant may be allowed to enter and remain in the parking areas except for parking and removal of Cars/Scooters. Regular offices must not be maintained in the storage/parking area in the basement(s) unless separated by Fire separation walls. The stores/go down must be opened for the limited purpose of keeping or removing stores. No person other than those on duty may be permitted in the air-conditioning plant room(s), HT/LT switch room, transformer compartment, control room pump-house, generator room, stores and records etc.

### **12.29 Fire prevention**

In addition to the measures recommended above, the following fire prevention measures must be implemented when the building is in occupation.

- a) Storage of flammable substances, such as diesel oil, gasoline, motor oils, etc. must not be allowed anywhere within the building. The only exception to this rule may be:
  - i) Storage of diesel oil in a properly installed tank in a fire-resisting compartment in the generator room;
  - ii) Diesel oil, gasoline, motor oil etc., filled in the vehicle tanks.
  - b) Preparation of tea and warming of food must be prohibited throughout the hazardous building.
  - c) Where heaters are used during winters, the following precautions must be taken.
    - i) All heaters, except convector heaters, must be fitted with guards.
    - ii) Heaters must not be placed in direct contact with or too close to any combustible material.
    - iii) Heaters must be kept away from curtains to ensure that the latter do not blow over the heater accidentally.
    - iv) Heaters must not be left unattended while they are switched on.
    - v) Defective heaters must be immediately removed from service until they have been repaired and tested for satisfactory performance.
    - vi) Use of heaters must be prohibited in the entire basement, fire control room and in all-weather maker rooms throughout the building. Also in all places where there is profusion of combustible flammable materials.
    - d) Fluorescent lights must not be directly above the open file racks in offices/record rooms. Where this is unavoidable, such lights must be switched on only for as long as they are needed.

- e) Filling up of old furniture and other combustible materials such as scrap paper, rags, etc. must not be permitted anywhere in the building. These must be promptly removed from the building.
- f) More than one portable electrical appliance must not be connected to any single electrical outlet.
- g) Used stencils, ink smeared combustible materials and empty ink tubes must not be allowed to accumulate in rooms/compartments where cyclostyling is done. These must be removed and disposed of regularly.
- h) All shutters/doors of main switch panels and compartments/shafts for electrical cables must be kept locked.
- i) Aisles in record rooms and stores must have a clear uniform width of not less than 1.0 m. Racks must not be placed directly against the wall/partition.
- j) In record rooms, offices and stores, a clear space of not less than 30 cm. must be maintained between the top-most stack of stores/records and the or lighting fittings whichever is lower.
- k) A similar clearance, and at (k) above must be maintained from fire detectors.
- l) Fire detectors must not be painted under any circumstances and must also be kept free from lime/distemper.
- m) Records must not be piled/dumped on the floor.
- n) Welding or use of blow torch shall not be permitted inside the building, except when it is done under strict supervision and in full conformity with the requirements laid down in IS: 3016-1966 code of practice for fire precautions in welding and cutting operation.
- o) Printing ink/oil must not be allowed to remain on the floor, the floor must be maintained in a clean condition at all times.

### **12.30 Occupancy restrictions**

- a) The premises leased to any party shall be used strictly for the purpose for which they are leased.
- b) No dangerous trade/practices (including experimenting with dangerous chemicals) shall be carried on in the leased premises.
- c) No dangerous goods shall be stored within the leased premises.
- d) The common/public corridor shall be maintained free of obstructions, and the occupants shall not put up any fixtures that may obstruct the passage in the corridor and/or shall not keep any wares, furniture or other articles in the corridor.
- e) The penalty for contravention of the condition mentioned above must be immediate termination of lease and removal of all offending materials.
- f) Regular inspection and checks must be carried out at frequent intervals to ensure compliance with conditions above.

*Note: For any further details / clarification NBC, Part 4 shall be referred. Norms and standards in Part 4 of NBC 2005 shall be overriding in any instance of variance of standards.2*

## **CHAPTER - 13**

### **13. CONSERVATION OF HERITAGE SITES INCLUDING HERITAGE BUILDINGS, HERITAGE PRECINCTS AND NATURAL FEATURE AREAS**

The objective of this regulation shall be to conserve, regulate and manage buildings, artifacts, structures, areas and precincts of historic and / or aesthetic and / or architectural and / or cultural significance and / or environmental significance (heritage buildings and heritage precincts) and / or natural features of environmental significance and or sites of scientific beauty, so as to promote heritage sensitive development.

#### **13.1 Applicability:**

This regulation shall apply to all heritage sites, buildings, heritage precincts and natural features declared under the Karnataka Town and Country Planning Act, 1961. Including those declared by Archaeological Survey of India and State Archaeology Department.

#### **13.2 Composition of heritage conservation committee:**

For the city, there shall be Heritage Committee (hereinafter referred to as the Committee) consisting of the following Members appointed by the State Government.

**TABLE 13.1 Composition of heritage conservation committee for Bengaluru:**

1.	Commissioner, Bruhat Bengaluru Mahanagara Palike	Chairman
2.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member

3.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
4.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject	Member
5.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
6.	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. degree having 10 years' experience in the field.	Member
7.	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
8.	Representative of ASI, Government of India.	Member
9.	Commissioner, Archeology, Museums and Heritage Department, Mysore or his nominee.	Member
10.	Representative of two local NGO's in existence for more than 3 years.	Member
11.	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
12.	Director of Town and County Planning or his nominee	Member
13.	Commissioner, Bengaluru Development Authority.	Member Secretary

**Table 13.2 Composition of heritage conservation committee for Other Corporation Areas:**

1.	Deputy Commissioner	Chairman
2.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member
3.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
4.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject	Member
5.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
6.	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. Degree having 10 years' experience in the field.	Member
7.	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
8.	Representative of ASI, Government of India.	Member
9.	Commissioner, Archaeology, Museums and Heritage Department Mysore or his nominee.	Member

10.	Representative of two NGO's in existence for more than 3 years	Member
11.	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
12.	Joint Director of Town Planning / Deputy Director of Town Planning / Assistant Director of Town Planning, respective City Corporation.	Member
13.	Commissioner, Urban Development Authority.	Member Secretary

**TABLE 13.3 Composition of heritage conservation committee for all other Towns/Cities -at District level:**

1.	Deputy Commissioner	Chairman
2.	Commissioner of respective Urban Development Authority.	Member
3.	Commissioner of respective City Municipal Council.	Member
4.	Chief Officer or respective Town Municipal Council.	Member
5.	Chief Officer of respective Town Panchayat.	Member
6.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member
7.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
8.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject.	Member
9.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
10	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. Degree having 10 years' experience in the field.	Member
11	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
12	Representative of ASI, Government of India.	Member
13	Commissioner, Archaeology, Museums and Heritage Department Mysore or his nominee.	Member
14	Representative of two NGO's in existence for more than 3 years.	Member
15	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
16	Asst. Director of Town Planning of the respective district	Member
17	Project Director, DUDC Cell	Member Secretary

- a) The Committee shall have the power to appoint two additional members who may have lesser experience, but who have special knowledge of the subject matter.
- b) The tenure of the Member of category (2) to (7) and (10) in **table – 13.1 and 12.2** category (6) to (11) and (14) of **table-13.3** shall be for three years provided however that the same person shall be

eligible for three years provided however that the same person shall be eligible for reappointment as Member.

- c) The quorum for the meeting of the Committee specified in **table 13.1 and 13.2** shall be five members including the Chairperson and for the Committee specified in **table 13.3** shall be seven members including the Chairperson. Any vacancy in the office of members shall not vitiate any decision taken by the majority of the members present.
- d) The terms of reference of committee shall be, inter-alia,
  - i. To advise the Local Authority whether development permission should be granted under this Regulation and the condition under which permission may be accorded.
  - ii. To prepare a list of buildings, artifacts, structures, areas, precincts of historic, aesthetic, architectural, cultural or environmental significance and a supplementary list of natural features of environmental significance or scenic beauty including sacred groves, hills, hillocks, water bodies (and the areas adjoining the same), open areas, wooded areas etc., to which this Regulation would apply from time to time,  
and grade them according to the heritage value.
  - iii. To advise whether any relaxation, modification, alteration or variance of any of the Zonal Regulations / Building Byelaws, is called for.
  - iv. To assist the Archeology, Museums and Heritage Department (AM&HD) in framing regulations for specific precincts and if necessary for natural features to guide the planning / Local / competent Authority regarding issue of permissions.
  - v. To advise on the extent of Development Rights Certificates to be granted.
  - vi. To advise whether Development Right Certificates may be allowed to be consumed in a heritage precinct.
  - vii. To advise in terms of this regulations whether to allow commercial / office / hotel use of a heritage building and when to terminate the same.
  - viii. To advise the Planning / Local / competent Authority in the operation of advertisements / bill boards / street furniture.
  - ix. To make recommendation to the Local Authority / competent Authority regarding guidelines to be adopted by those private parties or public / government agencies that sponsor beautification schemes near heritage building and precincts at public intersections and elsewhere.
  - x. To provide technical advice, if possible, on guidelines to the owner of heritage buildings / precincts to protect, conserve or restore them.
  - xi. To recommend / advice the AM&HD in preparing special designs and guidelines /publications for listed buildings, control of height and essential facade characteristics such as maintenance of special types of balconies and other heritage items of the buildings and to suggest suitable designs adopting appropriate material for replacements keeping the old form intact to the extent possible.
  - xii. To recommend / advice the AM&HD in preparing guidelines relating to design elements and conservation principles to be adhered to and to prepare other guidelines for the purposes of this regulation.
  - xiii. To advise the Local Authority on any other issues as may be required from time to time during course of scrutiny of development permissions and in overall interest of heritage / environmental conservation.
  - xiv. To appear before the government either independently or through or on behalf of the Local Authority in cases of listed buildings / heritage buildings and listed precincts /heritage precincts and listed natural features.

### **13.3 Procedure for the preparation of list of heritage sites and buildings, heritage precincts listed natural features.**

The list of heritage sites and buildings, heritage precincts and additions thereto will be declared by the Local Authority on the advice of the Committee and notified accordingly.

Provided that before the list is so declared, objections and suggestions granting at least 15 days' time from the public shall be invited by newspaper notification in at least two local newspapers. Restrictions on the Heritage precincts shall be in force with effect from the date of such newspaper notification by the Local Authority, provided further that such listing does not prevent change of ownership or usage.

The list may be supplemented from time to time by the Government on receipt of proposal from the agency concerned or by Government sue motto, provide that before the list is supplemented, objections and suggestions from the public are invited duly considered.

### 13.4 Criteria for listing of Heritage Sites:

(a)	Value for architectural, historical or cultural reasons	A
	Architectural	A(arc)
	Historical	A(his)
	Cultural	A(cul)
(b)	The date and / or period and / or design and / or unique use of the building or artifact	B
	Building or artifact	
	Period	B (per)
	Design	B (des)
	Use	B (use)
(c)	Relevance to social or economic history	C (seh)
(d)	Association with well-known persons or event	D (bio)
(e)	A building or group of buildings and / or areas of distinct architectural design and / or style, historic period or way of life having sociological interest and / or community value	E
	Style	
	Historical	
(f)	The unique value of building or architectural feature or artifact and / or being part of a chain of architectural development that would be broken if it were lost	F
(g)	Its value as a part of a group of buildings	G (gr)
(h)	Representing forms of technological development	H(tec)
(i)	Vistas of natural / scenic beauty or interest, including water-front areas, distinctive and / or planned lines of sight, street lines of sight, street line, skyline or topographical	I(se)
(j)	Open spaces sometimes integrally planned with their associated areas having a distinctive way of life which have the potential to be areas of recreation.	J
(k)	Natural Heritage sites	NH
(l)	Sites of scenic beauty	(sec)

### 13.5 Grading of the listed buildings / listed precincts:

Heritage Buildings, heritage precincts shall be graded as I, II, III as follows:-

GRADE – I	GRADE - II	GRADE – III
<p><b>A: DEFINITION:</b></p> <p>Heritage Grade – 1 comprises buildings and precincts of national or historic importance, embodying excellence in architectural style, design, technology and material, usage and / or aesthetics; they may be associated with a great historic event, personality, movement or institution. They have been and are the prime landmark of the region. All natural sites shall fall within Grade – 1</p>	<p>Heritage Grade – II (A &amp; B) comprises buildings and precincts of regional or local importance possessing special architectural or aesthetic merit or cultural or historic significance though of a lower scale in Heritage Grade-1. They are local land marks that contribute to the image and identity of the region. They may be the work of master craftsmen or may be models of proportion and ornamentation, or designed to suit a particular climate.</p>	<p>Heritage Grade – III comprises building and precincts of important for townscape; they evoke architectural aesthetic or sociological interest though not as much as in Heritage Grade – II. These contribute to determine the character of the locality and can be representative of lifestyle of a particular community or region and, may also be distinguished by setting on a street line, or special character of the facade and uniformity of height, width and scale.</p>
<p><b>Objective –</b> Heritage Grade-1 richly deserves careful preservation.</p>	<p>Heritage Grade-II deserves intelligent Conservation</p>	<p>Heritage Grade-III deserves protection unique features and attributes.</p>
<p><b>Scope for changes-</b> Interventions would be permitted to enter on the</p>	<p>Grade-II. (A). Internal changes, and adaptive reuse will be generally allowed, but external</p>	<p>External and internal changes and adaptive reuse would generally be allowed. Changes</p>

<p>exterior or interior unless it is necessary in the interest of strengthening, and prolonging, the life of the buildings or precincts or any part or features thereof. For this purpose, absolutely essential and minimal changes would be allowed and they must be in accordance with the original.</p>	<p>changes will be subject to scrutiny. Care would be taken to ensure the conservation of all special aspects for which it is included in Heritage.</p> <p>Grade-IIIB)-</p> <p>In addition to above extension or additional buildings in the same plot or compound could, in certain circumstances, be allowed provided that the extension / additional building is in harmony with (and does not detract from) existing heritage buildings(s) or precincts especially in terms of height and facade.</p>	<p>can includes extensions, additional buildings in the same plot or compound provided that extension/additional building is in harmony with and does not detract from the existing heritage building / precinct especially in terms of height and / or facade. Reconstruction may be allowed when the building is structurally weak or unsafe or which it has been affected by accidental fire or any other calamity or if reconstruction is required to consume the permissible FSI and no option other than reconstruction is required to consume the permissible FSI and no option other than reconstruction is available.</p> <p>However, unless absolutely essential, nothing should spoil or destroy and special features or attributes for which it is placed in the Heritage List.</p>
<p>Procedure –</p> <p>Development permission for the changes would be given by the Planning Authority on the advice of the Heritage Conservation Committee to be appointed by State Government.</p>	<p>Development permission for the changes would be given by the Planning Authority in consultation with a sub-committee of the Heritage Conservation Committee</p>	<p>Development permission would be given for changes by the Planning Authority itself but in consonance with guidelines, which are to be laid down by Government in Consultation with Heritage Conservation Committee.</p>
<p>B. VISTAS / SURROUNDING DEVELOPMENT:</p> <p>All development in areas surrounding Heritage Grade-I shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade-1</p>	<p>All development in areas surrounding Heritage Grade-II shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade - II</p>	<p>All development in areas surrounding Heritage Grade – III shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade-III.</p>

### 13.6 Restriction on development / re-development / repairs, etc.

- i) No development or re-development or engineering operation or additions, alterations, repairs, renovation including the painting of buildings, replacement of special features or plastering or demolition of any / part thereof of the said listed buildings including compound wall or listed precincts or listed natural features shall be allowed except with the prior written permission of the Local Authority. Before granting any such permission, the Local Authority shall consult the Committee and shall act on its advice.
- ii) Provided that before granting any permission for demolition or major alterations/ additions to listing buildings (or buildings within listed precincts), or construction at or near any listed natural features, or alteration of boundaries of any listed natural features, objections and suggestions from the public shall be invited by publishing prominently in two local newspapers and duly considered by the Committee.

iii) Provided that only in exceptional cases, for reasons to be recorded in writing, to the Planning / Local / Competent Authority may refer the matter back to the Heritage Conservation Committee for reconsideration.

iv) Heritage Buildings and Buildings in Heritage Precincts which are under the control of Public Works Department / Corporation /Universities / Boards and any other Government organizations under the purview of Government of Karnataka and Government of India have to be listed and declared as Heritage Properties. However, the decision of the Heritage Conservation Committee after such re-consideration shall be final.

### **13.7 Responsibility of the owners of heritage buildings:**

It shall be the duty of the owners of Heritage Buildings and Buildings in Heritage precincts to carryout regular repairs and maintenance of the buildings at their own cost. The Government or Local Authority shall not be responsible for such repairs and maintenance except for the buildings owned by the Government, or Local Authority.

### **13.8 Regulations for specified heritage precincts / listed natural features.**

In cases of heritage precincts and where deemed necessary by the Committee, natural features notified as per the provision of this Regulation, development permissions in the form of commencement certificate shall be granted in accordance with separate regulations prescribed for respective precincts / natural features which shall be framed by the AM&HD in consultation with the Local Authority on the advice of the Committee.

These regulations should concern architectural appearances, materials, the setting of buildings, their volumes, height, planting of trees etc. They will include regulations, which will govern planning, building permissions, along with guidelines that the Committee will refer to with regard to applications for planning permission, choices of restoration methods or spatial planning.

To prepare these separate regulations, a study of the heritage precincts / listed natural features will be commissioned by the AM&HD. The study will identify the heritage issues in all its aspects, fix the objectives to be reached in order to assure the conservation of the heritage identified and to draft regulations for management and development of the heritage areas.

The Local Authority will consider the draft regulations submitted by AM&HD and obtain public opinion on it in the following manner.

The draft of the separate regulations for precincts / natural features shall be published in the official gazette and in leading newspapers for the purpose of inviting suggestions and objections from the public. The Local Authority AM&HD and the Committee shall consider all suggestions and objections received within a period of 60 days from the date of publication in the official gazette.

After consideration of the above suggestions and objections, the AM&HD in consultation with Local Authority, acting on the advice of the Committee, shall modify (if necessary) the aforesaid draft separate regulations of precincts and natural features and forward the same to the Local Authority for further submission to the Government for sanction.

Provided that pending consideration of suggestions and objections and pending final sanction from Government to the above draft regulations for precincts and natural features, the committee shall have due regard to the above draft regulations while considering applications for development / re-development, etc, of heritage buildings / heritage precincts / listed natural features.

### **13.9 Road widening and building lines:**

i) If Road widening / Building line under the Karnataka Town and Country Planning Act, 1961 are prescribed they shall be such that they will protect and not detract from the said heritage precincts / said listed natural features.

ii) If there are any new road widening / Building lines proposed in the Master Plan, the Local Authority shall consider the heritage provisions and environmental aspects while considering applications for development permissions in these precincts. Necessary steps may be taken to modify the Master Plan accordingly. Pending this action, the development of new roads shall not be carried out.

iii) No widening of the existing roads under the Karnataka Town and Country Planning Act or Master Plan shall be carried out in a manner which may affect the existing heritage buildings (even if they are not included in a Heritage Precinct) or which may affect listed natural features.

### **13.10 Master plan reservations:**

If there are Master Plan reservations shown on heritage buildings or on listed natural features, the reservation may be deleted or modified if required. The Local Authority, on the advice of the Committee, shall move the Government to get these reservations deleted / modified as need be.

**13.11      Grant of Transferable Development Rights (TDR) in cases of loss of development rights.**

If any application for development is refused under this regulation, or conditions are imposed while permitting such developments, which deprive the owner of any unconsumed Floor Area Ration (FAR), the said owner/lessee shall be compensated by the grant of a Development Rights Certificate (DRC). The extent of DRCs to be granted and used will be determined by the Rules specially framed for Transfer of Development Rights.

**13.12      Incentive uses for heritage buildings:**

In cases of buildings included in the Heritage Conservation list, falling in zones where office / commercial / hotel use is normally prohibited, if the owner / owners / lessees agree to maintain the listed heritage building in its existing state and to preserve its heritage status with due repairs and the owner / owners / lessees give a written undertaking to that effect, the owner / owners / lessees may be permitted, with the approval of the Committee, to convert part or the whole thereof of the non-commercial area within such a heritage building to commercial / office use / hotel.

Provided that if the heritage building is not maintained suitably or if the heritage value of the building is allowed to be diminished in any manner, the local authority sue motto or on the advice of the Committee shall revoke permission given for such use.

**13.13      Maintaining skyline and architectural harmony:**

Buildings within heritage precincts or in the vicinity of heritage buildings / listed natural features shall maintain the skyline and follow the architectural style (without any high rise or multi-storied development) as may be existing in the surrounding area so as not to diminish or destroy the value and beauty of, or the view from, the said heritage building / heritage precincts or natural feature. The development within the precinct / in the vicinity of heritage buildings / natural features shall be in accordance to the regulations framed by AM&HD in association with the Local Authority on the advice of the Committee.

**13.14      Repair fund:**

With a view to give monetary help for repairs of Heritage buildings a separate fund may be created which would be available to the Local Authority who will disburse funds on the advice of the Committee. Provision for such a fund may be made through Government grants / local authorities / public contributions. Nothing mentioned above should be deemed to confer a right on the owner / occupier of the plot to demolish and / or re-construct and / or make alterations / additions to his heritage building / building in a Heritage Precinct if in the opinion of the Committee, such demolition / re-construction / additions is undesirable.

So as to preserve the heritage value of the zone, the Committee shall have the power to direct, especially in areas designated by them, that the exterior design and height of buildings should have their prior approval.

**Signs and outdoors display structures / including street furniture:**

The Local Authority before permitting signs, outdoor display structures including street furniture in the heritage areas / precincts building shall strictly follow the specifications, codes, conditions give below:

**A.** National Building Code of India to apply – The display or avert signs and outdoor display structures on building and land shall be in accordance with Part X-Signs and Outdoor Display Structures of National Building Code of India.

**B.** Additional Conditions – In addition to sub-regulation A, above, the following provisions shall apply to advertisement signs in different land use zones:

i. Residential Zone: the following non-flashing neon signs with illumination not exceeding 40 watt light.

a. One nameplate with an area not exceeding 0.1 Sq.m for each dwelling unit.

b. For other uses permissible in the zone, one identification sign or bulletin

board with an area not exceeding 10Sq.m. Provided the height does not exceed 1.5m.

c. 'For sale' or 'for rent' signs for real estate, not exceeding 2 Sq.m in area provided they are located on the premises offered for sale or rent.

ii. Residential Zones with shop lines: Non-flashing business sign placed parallel to the wall and not exceeding 1 m in height per establishment.

**C.** Prohibition of advertising signs and outdoor display structures in certain cases: Notwithstanding the provisions of sub-regulations of A & B, no advertisement sign or outdoor display structures shall be permitted on buildings of architectural, aesthetic, historical or heritage importance as may be decided by the Local Authority on the advice of the Committee, including on Government buildings,

save that in the case of Government buildings only advertising signs or outdoor display structures may be permitted if they relate to the activities, purposes or related programmes of the said buildings. However, the signage should be approved by the Committee.

**D.** Provided that if the Committee so advises, the Local Authority shall refuse permission for any sign or outdoors display structure. Signs, outdoor display structures (including street furniture) will require the approval of the Committee, which may prescribe additional guidelines for the same.

### **13.15 Voluntary contribution and agreement with any voluntary organization, person or Company:**

- 1) The Local Authority may receive voluntary contributions towards the cost of maintaining any heritage building and should manage such contributions for the purpose of preservation and conservation of such heritage building.
- 2) Subject to the prior approval of the Government, Local Authority may enter into any agreement with any person or voluntary organization or company, whether incorporated or not, willing to preserve and conserve any heritage building owned by Government on such terms and conditions as the Government may determine.

## **CHAPTER - 14**

### **14. STREAMLINING OF BUILDING PLAN APPROVALS**

#### **14.1 Streamlining the building approval/sanction procedure (Ease of Doing Business)**

In order to attract investments into the country, efforts are being made by the Government to improve 'Ease of Doing Business'. In this direction, the limit of Built-up Area (BUA) for Foreign Direct Investment (FDI) has been reduced from 50,000 Sq.m to 20,000 Sq.m. In this context, the local bodies have to operate the entire building approval process in online mode, so that the building plan applications are submitted online along with building fees and other charges, and after due scrutiny, the approvals are also conveyed online.

Further, external bodies like Fire and Emergency Services Department, Airports Authority of India (AAI), Metro Rail Corporation (MRC), Ministry of Environment, Forest and Climate Change (MoEFCC), Karnataka State Pollution Control Board (KSPCB), Heritage Conservation Committee (HCC), National Monuments Authority (NMA), Urban Art Commission (UAC), etc. shall grant No Objection Certificate (NOC)/ approvals on the proposed building plans to the local bodies. All such external bodies are mandated to prepare online NOC systems compatible to and integrated with that of the local bodies and the desired information is to be sent to the concerned external bodies and their comments/ NOC/ approval are to be received online so that there is no need for building proponents to pursue matter with local bodies or external agencies. The specific requirements of the external bodies are to be added in the Common Application Form (CAF) of the local body so that building proponent has to file all information at a single customized online application. The objective is to make the whole process simplified and streamlined to ensure ease in getting the approvals for building license within stipulated time.

#### **14.2 Clearances at Master Plan level**

Individual construction proposals should not generally require separate clearances from various authorities each time. Such clearances should be integrated into the Zoning Regulations of the Master Plan of the concerned Local Planning Area. The areas unaffected by any of the restrictions should be clearly marked out and mapped, preferably on a GIS platform. Area zones of differential control regulations (within the city) by any of these agencies may also be mapped accordingly. This will result in a composite map of the city with various control regulations as per the various agencies clearly marked on the map. Thus, the sites which are located outside these restricted/regulated areas would not require availing clearance from the respective authorities, thereby reducing the clearance process significantly.

Following are the clearances which should be integrated into the city Master Plan-

**Table 14.1 Clearances from various agencies proposed to be integrated in Master Plans**

<b>S1 No.</b>	<b>Name of Agency</b>	<b>Type of Clearance</b>	<b>Area of Influence</b>
1.	National Monuments Authority through Competent Authority	Ancient Monument approval	As prescribed in the AMASAR (Amendment and Validation) Act, 2010 for protection of monuments
2.	Ministry of Environment	Environment Clearance (EC)	As prescribed in the statutory provisions for EIA and clearance based on the size of the project in accordance with Environment protection Act, 1986

3.	Ministry of Defence	Defence Clearance	Area in and around Defence Establishments as identified by MoD.
4.	Coastal Management Authority	Zone NOC (if near sea/coastal areas)	Area under the CRZ regulations.
5.	NHAI/PWD	Road access	Buffer zones as prescribed by NHAI along National Highways.
6.	Ministry of Railways	Area clearance	Buffer zones as prescribed by Railways along Rail tracks/depots/yards etc.

Efforts are being made at the Government of India level to coordinate with all the central ministries and their organizations so that they streamline their own internal processes to issue no objection etc. where ever required by law. The efforts are mainly focused on delegating the powers at appropriate levels, establishing an online application process for time bound delivery, creating public awareness about their requirements, reviewing the restrictions and reducing them, sharing the data and norms with local authorities to be incorporated in Zoning Regulations.

Recognizing the concern for streamlining the procedures for clearances to be obtained from various departments in least possible number of procedures and number of days, the following model shall be adopted so that the entire process of Pre and Post-Construction approvals shall be completed within one month. The detailed timelines for building licence and occupation certificate are provided in **Appendix-VIII**

#### **14.3 Risk Based Classification of building proposals**

There is a need to make provisions for fast-tracking building permission procedures for all non-automatic approvals. Therefore, in the spirit of 'Ease of Doing Business', the buildings have been classified further on the basis of risk parameters/ risk based classification to clear the building permits on fast track system. This kind of classification shall be used for fast tracking the sanction of building plans.

##### **14.3.1 Residential Buildings**

**For approval of the residential plotted and group housing buildings, risk based classification shall be as per Table 14.2 –**

**Table 14.2 Risk Matrix for different Residential buildings**

Risks		Very Low	Low	Moderate	High
Criteria	Parameters				
Size of the Plot	Square Meters	Below 105 m <sup>2</sup>	105-500 m <sup>2</sup>	Above 500 m <sup>2</sup>	All sizes
No. of Floors/ Height of Building	(G+no. of floor)	(G+2)	(G+ 3)	(G+ 4)	(G+ 5) or above 15m height buildings
Use of the premise	Various Categories	Residential Plotted	Residential Plotted	Residential Plotted	Group Housing

**Fast Tracking Tools:**

**For Very Low Risk Buildings:**

The process prescribed in **clause 3.15** shall be followed.

**For Low Risk Buildings:**

A Competent professional (qualification & competence as per Annexure-E) shall be empowered to issue the building license, but only after submitting the plan along with requisite documents and fees to the concerned local body. If the owner/ professional desires to get the building plan sanctioned by the local body, building plans prepared by a qualified architect/ engineer will have to be submitted to the concerned local body along with the fees and other requisite documents and the local body shall grant the building permit within 10 days

**For Moderate Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building permit within 20 days.

**For High Risk Buildings:**

Clearance from Fire department and other necessary clearances from AAI, NMA and other agencies have to be obtained. Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building permit within 30 days.

**14.3.2 Storage/Warehouse Buildings**

For approval of the buildings meant for use as storage buildings/warehouses/go down, risk based classification shall be as per **Table 14.3** –

**Table 14.3 Risk Matrix for Storage/Warehouses**

Risks	Very Low	Low	Moderate	High
Covered Area on all floors/Built-up area	Up to 250m <sup>2</sup>	Above 250m <sup>2</sup> and up to 2000m <sup>2</sup>	Up to 2000m <sup>2</sup>	Above 2000m <sup>2</sup>
Height of building	Below 15m	Below 15m	Below 15m	Below 15m
Abutting Road width	Min. 12m	Min. 12m	Min. 12m	Min. 12m
Type of Material Storage	Category A	Category A	Category B (Stacking height-Medium)	Category B (Stacking height-High)

*Note:*

- i. The level of Risk is classified according to the material stored in the warehouse/storehouse. Material shall be classified according to the Categories defined in **Appendix-XVII**.
- ii. The Urban Local Body shall empanel professionals as notified by the Government.
- iii. The building application processing fees shall be as prescribed in **Appendix-VII**.

**Fast Tracking Tools:**

**For Very Low Risk Buildings:**

A competent professional (qualification & competence as notified by the Government) shall be empowered to issue the building license, but only after submitting the plan along with requisite documents and fees to the concerned local body. If the owner/ architect/ engineer desires to get the building plan sanctioned by the local body, he shall apply online to the local body and the local body shall grant the building license within 10 days.

**For Low Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 20 days.

**For Moderate Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 20 days.

**For High Risk Buildings:**

Building plans will have to be prepared by a qualified architect and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 30 days.

**14.3.3 Industrial Buildings**

For approval of the buildings meant for use as storage buildings /warehouses/godowns, risk based classification shall be as per **Table 14.4**

**Table 14.4 Risk Matrix for Industries**

Risks		Low	Moderate	High
Criteria	Parameters			
Size of the Plot	Square Meters	up to 350 m <sup>2</sup>	Above 350 m <sup>2</sup>	All sizes
Height of building	Meters	Less than 15m	upto 15m	Above 15m
Abutting Road width	Meters	Min. 12m	Min. 12m	Min. 12m

*Note:*

- i. The level of Risk is classified according the size and height of the industrial building proposed.
- ii. The Urban Local Body shall empanel professionals as notified by the Government.
- iii. The building application processing fees shall be derived by an automated built-in calculator in the online system.

#### **Fast Tracking Tools:**

##### **For Low Risk Buildings:**

1. Deemed Approval with Self-Certification
2. Plans to be submitted along with Structural drawings which does not require sanction

##### **For Moderate Risk Buildings:**

1. Plans to be submitted to the *empanelled professional*.
2. Fire/Structural safety certification by Fire Services/ Structural Engineers
3. Approval to be granted within 10 working days by the empanelled professional.
4. Approved plan to be submitted to ULB/DA.

##### **For High Risk Buildings:**

1. Online application
2. Immediate acknowledgement by software
3. Fire/Structural safety certification by Fire Services/ Structural Engineers
4. Approval by ULB/DA within 20 working days.

#### **14.4 Other Suggestions to enhance ease of doing business:**

Some other suggestions, regarding Fast-Track construction licenses are:

##### **14.4.1 ‘Citizens’ Charter**

A ‘**Citizens’ charter** lists out the timelines and upper limits of time for the delivery of citizen services of the organization. The objective of issuing the charter is to improve the quality of public service in terms of timely delivery. Such charters shall be brought out by all the Local Body to maintain high standards of accountability and transparency. The standards of service to be provided, the maximum number of days required for building approvals and the standards procedures shall be listed out in the citizens’ charter.

##### **14.4.2 Capacity building**

Capacity building measures are to be adopted for such functionaries to identify Training Needs (TNA) and other technical requirement of duties that they are required to discharge. Fresh recruitments commensurate to the technical qualification/ experience are to be made by the State Government, if there is complete absence of the technical expertise needed for the said services.

##### **14.4.3 Empowered Committees**

The Authorities may also consider constituting ‘Empowered Committees’ or ‘Peer Expert Groups’ for undertaking scrutiny and approval. This committee can be manned as per the requirement and area of more than one municipality can be put under its jurisdiction.

##### **14.4.4 Simplification of bye-laws**

The building Bye-Laws need to be simplified for easy comprehension of lay person as well as professionals involved in developmental activities. The simplification process should also include the process of application, the filling up of forms and streamlining the process of application.

## **CHAPTER - 15**

### **15. CLIMATE RESILIENT CONSTRUCTION – INTEGRATION OF ENVIRONMENTAL CLEARANCE WITH SANCTION**

Land, Air, Noise, Water, Energy, biological/ socio-economic/ solid / other waste management are the main facets considered in relation to Pre, during and Post Building Construction for Sustainable Environment Management. Therefore, it is necessary for the building process to ensure compliance to various conditions laid down by the Ministry of Environment, Forest and Climate Change.

The building construction sector is a major contributor towards carbon footprints which affects climate change. India is committed towards mitigating the effects of climate change and moving towards internationally accepted norms for environmental friendly building construction. Currently this objective of environmental safeguard is achieved through obtaining a specific environmental clearance (EC) for any construction project having a size of more than 20,000 Sq.m. This is administered under notification of Ministry of Environment, Forest and Climate Change.

With rapid urbanisation and growth of Indian economy, it is anticipated that the construction activity will experience a proportionate growth. Government is also committed towards streamlining of clearances for buildings and real estate sector and empowering the urban local bodies with an objective of Ease of Doing Business.

#### **Integration of environmental condition in building bye-laws:**

- 1) When the State Governments notifies the bye-laws and rules concurred by the Ministry of Environment, Forest and Climate Change, the Central Government may issue an order stating that no separate environmental clearance is required for buildings to be constructed in the States or local authority areas.
- 2) The local authorities like Development Authorities, Municipal Corporations, may certify the compliance of the environmental conditions prior to issuance of Completion Certificate, as applicable as per the requirements stipulated for such buildings based on the recommendation of the Environmental Cell constituted in the local authority.
- 3) The State Governments where bye-laws or rules are not framed may continue to follow the existing procedure of appraisal for individual projects and grant of Environmental Clearance for buildings and constructions as per the provisions laid down in this notification.
- 4) For the purpose of certification regarding incorporation of environmental conditions in buildings, the Ministry of Environment, Forest and Climate Change may empanel through competent agencies, the Qualified Building Environment Auditors (QBEAs) to assess and certify the building projects, as per the requirements of this notification and the procedure for accreditation of Qualified Building Auditors and their role as given at **Appendix-XV**
- 5) In order to implement the integration of environmental condition in building bye-laws, the State Governments or Local Authorities may constitute the Environment Cell (herein after called as Cell), for compliance and monitoring and to ensure environmental planning within their jurisdiction.
- 6) The Cell shall monitor the implementation of the bye-laws and rules framed for Integration of environmental conditions for construction of building and the Cell may also allow the third part auditing process for oversight, if any.
- 7) The Cell shall function under the administrative control of the Local Authorities.
- 8) The composition and functions of the Cell are given at **Appendix-XVI**.
- 9) The Local Authorities while integrating the environmental concerns in the building bye-laws, as per their size of the project, shall follow the procedure, as given below:

#### **15.1 Environmental conditions for compliance during Building approvals**

The Ministry of Environment, Forest and Climate Change has now decided to integrate the environmental concerns into building plan approval process and empowering the concerned local body/development authority to approve and certify compliance of stipulated requirements. The new building construction proposals are classified in the following 3 categories:-

- 1) **Building Category '1':** Built-up Area 5,000 Sq.m to < 20,000 Sq.m
- 2) **Building Category '2':** Built-up Area ≥ 20,000 Sq.m to 50,000 Sq.m
- 3) **Building Category '3':** Built-up Area ≥ 50,000 Sq.m to 1,50,000 Sq.m

#### **15.1.1 BUILDINGS CATEGORY '1' (5,000 to < 20,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.1** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be

submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. Thereafter, the local authority may issue the building License incorporating the environmental conditions in it and allow the project to start based on the self-declaration and certification along with the application. After completion of the construction of the building, the project proponent may update **Form-IIb** based on audit done by the Qualified Building Environment Auditor and shall furnish the revised compliance undertaking to the local authority. Any noncompliance issues in buildings less than 20,000 square meters shall be dealt at the level of local body and the State through existing mechanism.

#### **15.1.2 BUILDINGS CATEGORY '2' (>20,000 to < 50,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.2** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. The fee for environmental appraisal will be deposited in a separate account. The Environment Cell will process the application and present it in the meeting of the Committee headed by the authority competent to give building License in that local authority. The Committee will appraise the project and stipulate the environmental conditions to be integrated in the building License. After recommendations of the Committee, the building License and environmental clearance will be issued in an integrated format by the local authority. The project proponent shall submit Performance Data and Certificate of Continued Compliance of the project for the environmental conditions parameters applicable after completion of construction from Qualified Building Environment Auditors every five years to the Environment Cell with special focus on the following parameters:-

- (a) Energy Use (including all energy sources).
- (b) Energy generated on site from onsite Renewable energy sources.
- (c) Water use and waste water generated, treated and reused on site.
- (d) Waste Segregated and Treated on site.
- (e) Tree plantation and maintenance.

After completion of the project, the Cell shall randomly check the projects compliance status including the five years audit report. The State Governments may enact the suitable law for imposing penalties for non-compliances of the environmental conditions and parameters. The Cell shall recommend financial penalty, as applicable under relevant State laws for non-compliance of conditions or parameters to the local authority. On the basis of the recommendation of the Cell, the local authority may impose the penalty under relevant State laws. The cases of false declaration or certification shall be reported to the accreditation body and to the local body for blacklisting of Qualified Building Environment Auditors and financial penalty on the owner and Qualified Building Environment Auditors. No Consent to Establish and Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 will be required from the State Pollution Control Boards for residential buildings up to 1,50,000 square meters.

#### **15.1.3 BUILDINGS CATEGORY '3' (> 50,000 to < 1,50,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.3** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. The fee for environmental appraisal will be deposited in a separate account. The Environment Cell will process the application and present it in the meeting of the Committee headed by the authority competent to give building License in that local authority. The Committee will appraise the project and stipulate the environmental conditions to be integrated in the building License. After recommendations of the Committee, the building License and environmental clearance will be issued in an integrated format by the local authority.

The project proponent shall submit Performance Data and Certificate of Continued Compliance of the project for the environmental conditions parameters applicable after completion of construction from Qualified Building Environment Auditors every five years to the Environment Cell with special focus on the following parameters:-

- (a) Energy Use (including all energy sources).
- (b) Energy generated on site from onsite Renewable energy sources.
- (c) Water use and waste water generated, treated and reused on site.
- (d) Waste Segregated and Treated on site.
- (e) Tree plantation and maintenance.

After completion of the project, the Cell shall randomly check the projects compliance status including the five years audit report. The State Governments may enact the suitable law for

imposing penalties for non-compliances of the environmental conditions and parameters. The Cell shall recommend financial penalty, as applicable under relevant State laws for non-compliance of conditions or parameters to the local authority. On the basis of the recommendation of the Cell, the local authority may impose the penalty under relevant State laws. The cases of false declaration or certification shall be reported to the accreditation body and to the local body for blacklisting of Qualified Building Environment Auditors and financial penalty on the owner and Qualified Building Environment Auditors. No Consent to Establish and Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 will be required from the State Pollution Control Boards for residential buildings up to 1,50,000 square meters.

A local Authority, i.e. ULB/DA/any other body authorized to sanction building plans shall approve the building plans by ensuring the stipulated conditions in **Table 15.1, 15.2 and 15.3** for the respective categories of buildings (area mentioned against each building category is the total constructed area of the building including car parking area)

**Table 15.1: Environmental Conditions for Building and Construction  
(Building Category '1': 5,000Sqm to < 20,000S.qm)**

<b>Sl. No.</b>	<b>Medium</b>	<b>Environmental conditions</b>
1	Topography Natural Drainage	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	A complete plan for rain water harvesting, water efficiency and conservation should be prepared. Use of water efficient appliances should be promoted with low flow fixtures or sensors. The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority. <u>All recharge should be limited to shallow aquifer</u>
2(a)		At least 20% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.

4	Sewage Treatment Plant	<p>Onsite sewage treatment of capacity of treating 100% waste water to be installed.</p> <p>Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.</p>
5	Energy	<p>Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.</p> <p>All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances – BEE Star and Energy Efficient Appliances)</p> <p>Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design.</p> <p><u>Wall, window, and roof u-values shall be as per ECBC specifications.</u></p>
5(a)		<p>Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy.</p> <p>If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.</p>
5(b)		<p>Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.</p>
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p>

		All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask. For indoor air quality, the ventilation provisions as per National Building Code of India shall be made.
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species.
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.

**Table 15.2: Environmental Conditions for Building and Construction  
(Building Category '2': ≥ 20,000 Sq.m to 50,000 Sq.m)**

<b>Sl. No.</b>	<b>Medium</b>	<b>Environmental conditions</b>
1	Topography Natural Drainage	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	A complete plan for rain water harvesting, water efficiency and conservation should be prepared. Use of water efficient appliances should be promoted with low flow fixtures or sensors. The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority. All recharge should be limited to shallow aquifer
2(a)		At least 25% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.
4	Sewage Treatment Plant	<p>Onsite sewage treatment of capacity of treating 100% waste water to be installed.</p> <p>Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.</p>
5	Energy	<p>Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.</p> <p>All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances – BEE Star and Energy Efficient Appliances)</p> <p>Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design.</p> <p>Wall, window, and roof u-values shall be as per ECBC specifications.</p>
5(a)		<p>Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy.</p> <p>If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.</p>
5(b)		<p>Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.</p>
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to</p>

		<p>suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p> <p>All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p> <p>For indoor air quality, the ventilation provisions as per National Building Code of India shall be made.</p>
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	<p>A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained.</p> <p>The existing trees will be counted for this purpose. Preference should be given to planting native species.</p>
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.
8	Top soil preservation and reuse	Top soil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
9	Transport	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.</p> <ol style="list-style-type: none"> <li>1. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>2. Traffic calming measures.</li> <li>3. Proper design of entry and exit points.</li> <li>4. Parking norms as per local regulation.</li> </ol>

**Table 15.3: Environmental Conditions for Building and Construction  
(Building Category '3': ≥ 50,000 Sq.m to 1,50,000 Sq.m)**

Sl. No.	Medium	Environmental conditions
1	Topography Natural Drainage	<p>The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.</p> <p>Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.</p>
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	<p>A complete plan for rain water harvesting, water efficiency and conservation should be prepared.</p> <p>The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.</p> <p>All recharge should be limited to shallow aquifer.</p>

2(a)		At least 30% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.
4	Sewage Treatment Plant	Onsite sewage treatment of capacity of treating 100% waste water to be installed. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
5	Energy	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances - BEE Star and Energy Efficient Appliances) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5(a)		Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy. If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.
5(b)		Solar water heating shall be provided to meet the total hot water demand of the commercial and institutional building. Residential buildings are also to meet its hot water demand from solar water heaters, unless additional power supply from renewable energy sources is provided equal to the power requirement of electric water heaters.

		Alternatively, if any other hybrid system (including other cost-efficient technologies) is proposed for hot water generation instead of solar water heating system, additional power supply from renewable energy sources shall be provided equal to the power requirement for operating such hybrid or other systems for hot water generation.
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Wheel washing for the vehicles used be done.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p> <p>All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p> <p>For indoor air quality, the ventilation provisions as per National Building Code of India.</p>
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.
8	Top Soil Preservation and Reuse	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
9	Transport	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks.</p> <p>Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.</p> <ol style="list-style-type: none"> <li>1. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>2. Traffic calming measures.</li> <li>3. Proper design of entry and exit points.</li> <li>4. Parking norms as per local regulation.</li> </ol>

10	Environment Management Plan	An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified in item number 1 to 9 above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.
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**Note:** The solid waste management system and waste water management system proposed in the above tables or as notified by the government (along with monitoring mechanism for the effective functioning of the systems) shall be followed.

By Order and in the name of the Governor of Karnataka

**NAGARAJ**  
Under Secretary to Government  
Urban Development Department.

**Annexure-A**  
**Occupancy Categorization of Buildings for Water and Other Requirement for Fire Fighting**

<b>Zone-I</b>	<b>Zone-II</b>	<b>Zone-III</b>
<b>GROUP 'A': RESIDENTIAL</b>	<b>GROUP 'A' : RESIDENTIAL</b>	<b>GROUP 'A' : RESIDENTIAL</b>
A1 Lodging and Rooming House A2 One or two family private A3 Dormitories A4 Apartment Houses	A5 Hotels	F2 Shops and stores, etc. above 500 Sq.m. floor area F3 Underground shopping Centers
<b>GROUP 'B' : EDUCATIONAL</b>	<b>GROUP'C' : INSTITUTIONAL</b>	<b>GROUP 'G' : INDUSTRIAL</b>
B1 Schools up to higher secondary level	C1 Hospitals and Sanitaria (More than 100 beds)	G3 High hazard Industries
<b>GROUP'C' INSTITUTIONAL</b>  C1 Hospital & Sanitaria (upto 100beds) C2 Custodial Institutions C3 Penal& mental Institutions	<b>GROUP 'D' ASSEMBLY BUILDINGS</b>  D1 For more than 1000 persons with permanent stage and fixed seats D2 For less than 1000 persons with permanent stage and fixed seats	<b>GROUP 'H' STORAGE BUILDINGS</b>
<b>GROUP 'D' ASSEMBLY BUILDINGS</b>  D3 Upto 300 persons without permanent stage and fixed seats D4 Above 300 persons without permanent stage and fixed seats	<b>GROUP 'E' BUSINESS BUILDINGS</b>  E1 Offices, Banks, etc. E2 Laboratories, Libraries, etc. E3 Telephone Exchanges	<b>GROUP 'J' HAZARDOUS BUILDINGS</b>
<b>GROUP 'E' BUSINESS</b> E3 Computer Installations E5 Broadcasting stations	<b>GROUP 'F' MERCANTILE</b> F1 Shops, Stores, etc. upto 500m <sup>2</sup> floor area	
<b>GROUP 'G' INDUSTRIAL</b>  G1 Low hazard Industries	<b>GROUP 'G' INDUSTRIAL</b>	

## **Annexure-BI**

## **Fire Protection Requirements for Buildings in Zone-I Category**

## **Fire Protection Requirements for Buildings in Zone-I Category**

## Legend

O Guest Houses/Lodging having up to 20 rooms or 40 beds and below

I Height less than 15 m

II Height 15 m and above up to 24 m

### III Height above 24 m

IV Height less than 15 m and plot area less than 250 Sq.m

V Height less than 15 m and plot area 251 Sq.m and above up to 500 Sq.m

VI Height less than 15 m and plot area 501 Sq.m and above up to 1000 Sq.m

VII Height less than 15 m and plot area more than 1001 Sq.m

## VIII Height above 15 m and up to 18 m

P To be provided.

X Not to be provided.

S Sprinklers to be provided if basement area is 200 Sq.m or more.

FS Fully Sprinkle red.

1. To be provided if seating capacity exceed 750.
  2. To be provided if building is more than ground floor, first floor and total covered area exceed 1500 sq. m
  3. To be provided in building where total covered area exceeds 1000 sq. m or Building is more than ground floor except group housing.
  4. To be provided if building is ground floor, first floor and total covered area exceeds 300 m.
  5. To be provided if building is more ground floors.
  6. To be provided in building except educational buildings.
  7. In case seating capacity is 1000 persons minimum or covered area above 1500 Sq.m or basement area 200 Sq.m and more (other than places or worships).
  8. To be provided for E-4 and E-5 buildings but not required if building is fully sprinkled.
  9. To be provided for E-4 and E-5 buildings.
  10. 25,000 lt. capacity underground water storage tank to be provided.
  11. 50,000 lt. capacity underground water storage tank to be provided.
  12. To be provided where ever sprinklers are not installed.
  13. Terrace tank of 5,000 lt. capacity to be provided, if sprinklers and installed. The capacity shall be accordingly increased.

Annexure-BII

## **Fire Protection Requirements for Buildings in Zone-II Category**

**Fire Protection Requirements for Buildings in Zone-II Category.**

<b>Sl. No</b>	<b>Measures</b>	<b>Group-E: Business E1, E2, E4</b>			<b>Group-F: Mercantile</b>	<b>Group-G. Industrial G2</b>				
		<b>VII</b>	<b>VIII</b>	<b>IX</b>	<b>X</b>	<b>XI</b>	<b>XII</b>	<b>XIII</b>	<b>XIV</b>	<b>XV</b>
1	Access	P	P	P	P	P	P	P	P	P
2	Means of Escape	P	P	P	P	P	P	P	P	P
3	Compartmentation	P	P	P	P	P	P	P	P	P
4	Refuge Area	X	X	X	X	X	X	X	X	X
5	Emergency Lights	P	P	P	P	X	X	P	P	P
6	Exit Signs	P	P	P	P	X	X	P	P	P
7	PA System with Talk Back Facility	X	P	P	X	X	X	X	X	P
8	Moefa	X	P	P	X	X	X	P	P	P
9	Extinguishers	P	P	P	P	P	P	P	P	P
10	Hose Reel	P	P	P	P1	P	P	P	P	P
11	Yard Hydrant	X	P	P	X	X	X	P	P	P
12	Down Comer	P3	X	X	X	X	X	P4	X	X
13	Wet Riser	X	P	P	X	X	X	X	P6	P
14	Fire Detection System	P3	P	P	X	X	X	X	X	P
15	Automatic Sprinkler System	S	S	FS	S	S	S	S	FS	FS
16	Under Ground Tank	X	P	P	X	X	P9X	P10	P	P
17	Over Head Tank	P	P	P	P1	P	P	P	P	P
18	Fire Pumps	X	P	P	X	X	X	P	P	P
19	Booster Pumps	P	P	P	P1	P	P	P	P	P
20	Auto D.G. Set	P	P	P	X	X	P	P	P	P
21	MCB/ELCB	P	P	P	P	P	P	P	P	P
22	Hose Boxes	P3	P	P	X	X	P	P	P	P
23	Fireman's Grounding Switch	P	P	P	P	P	P	P	P	P

**Legend**

- I Height less than 15 m. and area up to 300 sq. m on each floor.  
 II Height less than 15 m and area above 300 sq. m up to 1000 sq. m on each floor.  
 III Height less than 15 m and area above 1000 sq. m on each floor.  
 IV Height 15 m and above.  
 V Height less than 15 m  
 VI Height 15 m and above up to 30 m  
 VII Height less 15 m.  
 VIII Height 15 m. and above up to 24 m.  
 IX Height more than 24 m.  
 X Height less than 15 m. and plot area up to 750 Sq.m  
 XI Height less than 15 m. and plot area less than 250 Sq.m.  
 XII Height less than 15 m. and plot area 251 m<sup>2</sup> and above up to 500 Sq.m  
 XIII Height less than 15 m. and plot area 501 m<sup>2</sup> and above up to 1000 Sq.m.  
 XIV Height less than 15 m. and plot area more than 1001 Sq.m  
 XV Height above 15 m. and up to 18 m.  
 P to be provided  
 X not to be provided  
 S Sprinklers to be provided if basement area is 200 m<sup>2</sup> or more  
 FS Fully Sprinkle red.

1. To be provided if building is more than one floor.
2. To be provided in buildings above two floors.
3. To be provided if the building is more than ground floor, first floor and covered area exceeds 1500 Sq.m
4. To be provided if building is more than first floor and the covered area exceeds 300 Sq.m
5. To be provided for more than storeyed buildings and above.
6. To be provided if building is ground floor, first floor and above.
7. Buildings to be fully sprinkled if height exceeds 15 m.

8. To be provided if seating capacity exceeds 1000 persons.
9. 25,000 lt. capacity underground tank to be provided.
10. 50,000 lt. capacity a ground tank to be provided if riser is not provided.

**Annexure-BIII**

**Fire Protection Requirements for buildings in Zone-III Category**

Sl. N O	Measures	Group F mercantile (F2, F3)			Group G Industrial (G3)				Group H Storage		Group Hazardous	
		H<15 m	H>15 m	UG S	I	II	III	IV	H<15 m Single Storey	H<15 m More than one Storey	H<15 m Single Storey	H<15 m More than one Storey
1	Access	P	P	P	P	P	P	P	P	P	P	P
2	Means of Escape	P	P	P	P	P	P	P	P	P	P	P
3	Compartmentati on	P	P	P	P	P	P	P	P	P	P	P
4	Refuge Area	X	X	X	X	X	X	X	X	X	X	X
5	Emergency Lights	P	P	P	X	P	P	P	X	P	P	P
6	Exit Signs	P	P	P	X	P	P	P	X	P	P	P
7	PA System with Talk Back Facility	P1	P	P	X	X	X	X	X	X	P	P
8	Moefa	P1	P	P	X	X	X	P	X	X	P	P
9	Extinguishers	P	P	P	P	P	P	P	P	P	P	P
10	Hose Reel	P	P	P	P	P	P	P	P	P	P	P
11	Yard Hydrant	P	P	P	X	X	P	P	P2	P2	P	P
12	Down Comer	X	X	X	X	X	X	X	X	X	X	X
13	Wet Riser	P1	P	P	X	X	P 3	P 1	X	P3	X	X
14	Fire Detection System	X	P	P	X	X	P	P	X	X	P	P
15	Automatic Sprinkler System	FS	FS	FS	F S	F S	F S	F S	FS4	FS	FS	FS
16	Under Ground Tank	P	P	P	P 5	P 6	P 7	P	P6	P	P	P
17	Over Head Tank	P	P	X	P	P	P	P	P	P	X	P
18	Fire Pumps	P	P	P	P	P	P	P	P4	P	P	P
19	Booster Pumps	X	X	X	X	X	X	X	X	X	X	X
20	Auto D.G. Set	P	P	P	P	P	P	P	P	P	P	P
21	MCB/ELCB	P	P	P	P	P	P	P	P	P	P	P
22	Hose Boxes	P1	P	P	X	P	P	P	X	P3	P	P
23	Fireman's Grounding Switch in Lifts	P	P	P	P	P	P	P	X	P	X	P

**Legend**

U.G.S. Under Ground Shopping complex

- i) Height less 15 m. shopping complex
- ii) Height less 15 m. and plot area 251 Sq.m and above up to 500 Sq.m
- iii) Height less 15 m. and plot area 501 Sq.m. and above up to 1000 Sq.m.
- iv) Height less 15 m. and plot area more than 1001 Sq.m.

P To be provided.

X Not to be provided.

S Sprinklers to be provided if basement area is 200 Sq.m or more.

FS Fully Sprinkle red.

1. To be provided if building is more than one floor.

2. To be provided in buildings above two floors.

3. To be provided if the building is more than ground floor, first floor and covered area exceeds 1500 Sq.m
4. To be provided if building is more than first floor and the covered area exceeds 300 Sq.m
5. To be provided for more than storeyed buildings and above.
6. To be provided if building is ground floor, first floor and above.
7. Buildings to be fully sprinkled if height exceeds 15 m.
8. To be provided if seating capacity exceeds 1000 persons.
9. 25,000 lt. capacity underground tank to be provided.
10. 50,000 lt. capacity a ground tank to be provided if riser is not provided.

#### **Annexure-C**

**1. Water Requirement Criterion:** Unless otherwise specified in Annexure B, water requirement for fighting in different categories of occupancies shall be based on following.

<b>Occupancy Category</b>	<b>Sprinkler Design Discharge Density (lt./min/Sq.m.)</b>	<b>Sprinkler Design Area (Sq.m.)</b>	<b>Max. area coverage/ Sprinkler (Sq.m.)</b>	<b>No. of House Streams* Fully other Sprinkled</b>	<b>Duration of Discharge (Min.)</b>	
					<b>Fully Sprinkled</b>	<b>Wet Riser Sprinkled</b>
LEVEL-I	02.5	084	21	24	45	45
LEVEL-II	05.0	360	12	36	60	90
LEVEL-III	10.0	225	09	36	90	90

**Note:** The discharge through a standard hose stream shall be taken as 567 lt./min.

#### **2. Estimation of Total Water Requirements Fully Sprinkle red Buildings**

<b>Occupancy Category</b>	<b>Sprinkler(lt.)</b>	<b>Riser(lt.)</b>	<b>Total(lt.)</b>	<b>Wet Riser cum Down Comer (lt.)</b>
LEVEL-I	9,450	51,030	60,480 (60,000)	1,02060 (1,00,000)
LEVEL-II	1,08,000	1,02,060	2,10,060 (2,00,000)	2,04,120 (2,00,000)
LEVEL-III	2,02,500	1,02,060	3,04,560 (3,00,000)	3,06,180 (3,00,000)

#### **3. Water Storage Tanks**

1. The design of the water storage tanks shall be as laid down in National Building Code of India.
2. The capacity of underground water storage tank shall not be more than 85% of the total water requirement.
3. The capacity of overhead tank shall not be less than 15% of the total water requirement.
4. The entire water requirement can be provided in overhead tanks and pumping requirements shall be finalized in consultation with Chie Fire Officer.
5. Under ground water storage tank shall not be provided in the set back areas.

<b>Occupancy Category</b>	<b>Under Ground Static Tank</b>		<b>Over Head Tank</b>	
	<b>Fully Sp kd. (lt.)</b>	<b>Riser (lt.)</b>	<b>Fully Spkd.(lt.)</b>	<b>Riser(lt.)</b>
LEVEL-I	50,000	85,000	10,000	15,000
LEVEL-II	1,70,000	1,70,000	30,000	30,000
LEVEL-III	2,50,000	2,50,000	50,000	50,000

#### **4. Riser/Down comer**

1. The size of the riser/ down comer shall be such that velocity of flow does not exceed 5 m/second subject to a minimum of 100 mm. diameter.
2. The number of riser/down comer shall be calculated on the basis that if 30 m. of delivery hose is laid, it reaches the farthest comer of the remotest compartment on the floor.
3. The riser/down comer shall be provided in the staircase/staircase lobby in such a manner that it does not obstruct the means of escape.
4. Only single headed hydrants shall be used on the riser/down comer.
5. The size of hose to be provided with the internal hydrants shall be 50mm diameter and with 63 mm diameter instantaneous male/female couplings.
6. Diffuser branch shall only be provided in the hose boxes.
7. In case of partially sprinkle red building tapping from the wet riser is permitted for sprinkler feed.
8. In case of fully sprinkle red building separate rising mains and pumps shall be used for sprinkler system and wet riser.

## 5. Selection of Pumps

1. Pumping requirement shall be met by a single pump or combination of pumps.
2. If more than one pump is installed to meet the pumping requirement they shall be so arranged that they come into operation one after another depending upon fall in pressure in the mains and the combined pumping capacity shall be 20% more than the actual pumping capacity needed.
3. Jockey pump shall be selected to give minimum 3% and maximum 5% of aggregate pumping requirement at the same pressure to that of the main pump subject to maximum discharge of 450 LPM.
4. Standard pumps shall only be used having discharge capacity as 180LPM, 2280LPM 2850 LPM & 4550 LPM.
5. The pump shall be capable of giving the pressure as shown in the table below:

<b>Occupancy Category</b>	<b>Pressure* At Terrace Level</b>	
	<b>Fully Spkd. (Kgf./Cm<sup>2</sup>)</b>	<b>Riser (Kgf./Cm<sup>2</sup>)</b>
LEVEL-I	3.5	3.5
LEVEL-II	3.5	5.5
LEVEL-III	3.5	7.0

\* Orifice plates shall be installed at the hydrants on rising mains / yard hydrants to ensure that the pressure does not exceed 7 Kgf./Cm<sup>2</sup>.

## Annexure-D

### Questionnaire for High Rise Buildings/Other Buildings

#### Fire Service Headquarters

1. Name of the building .....
2. Address of the building.....
3. Name and address of builder/promoter.....
4. Name and address of owners /occupiers of individual flats .....
5. Plot area .....
- (a) Title .....
- (b) Land use (in case of residential building indicate no. of dwelling units.....
6. Covered Area (at grade level) .....
7. Height of tile building.....
8. a) Overall height (from grade level up to terrace level ) .....
9. b) Whether set back areas are conforming to unified building byelaws.....
- c) Area of the basement .....
- d) Whether any piazza is proposed? if so, details of the level of piazza and ramp etc. be indicated .....
10. Number of floors (including ground floor) .....
11. Occupancy use (please mention separately, use for basement and floors)  
.....
12. Covered area of typical floor .....
13. Parking areas (please give details) .....
14. Details of surrounding properties / features  
.....

<b>Compass direction In relation to the building</b>	<b>Type of Property/ feature</b>	<b>Height in case of building</b>	<b>Distance wall to wall from building</b>	<b>Any other information</b>
North				
South				
East				
West				

15. Approach to proposed building width of the road and connecting roads, if any.....
16. Please give details of water supply available exclusively for the fire fighting  
.....
17. Has wet riser(s) been provided? If so, please indicate the number of risers and internal dia of each .....
18. Has any down comer been provided? If so, please give details including pump capacity.....

19. Please indicate the present arrangement for replenishment of water for fire fighting.....
20. Is a public or other water storage facility available nearby? if so, please give the capacity and distance from your building, also please indicate if it is easily accessible.....
21. Please give any other information regarding availability of water supply for fire fighting.....
22. Have internal hydrants on each floor including basement (s) and terrace.
- a) No. of hydrants on each floor including basement (s) and terrace .....
  - b) Bore and length of each floor including basement(s) .....
  - c) Size (bore) and type of nozzle fitted to each hose reel.....
  - d) Is the hose reel connected directly to the riser or to the hydrant outlet?  
.....
23. Has fire hose been provided near each hydrant? if so, Please indicate .....
- a) The type hoses.....
  - b) The size (bore) of hose .....
  - c) The length of each hose .....
24. Have branch pipes been provided? if so, please indicate
- a) The type of branch pipe.....
  - b) Size of nozzle fitted to each branch.....
- 25 a) If the basement is used for Car / Scooter parking or storage.  
Has it been sprinkled?.....
- b) Whether any cubicles proposed in the basement? If so, the area of each cubical be indicated?  
.....
  - c) Whether segregation/compartimentation of the basement has been provided? If so, please give details.....
26. Is the building equipped with automatic fire detection and alarm system? If so, please indicate
- a) The type of detectors used .....
  - b) The standard to which the detectors conform .....
  - c) The code to which the installation conform .....
27. Have manual call boxes been installed in the building for raising an alarm in the event of outbreak of fire? If so, please give details.....
28. Has public address system been installed in the building with loudspeaker on each floor with talk back facility.....
29. Has an intercom system been provided between the various floors and the fire control room in entrance lobby? .....
30. Has a fire control room been provided in the entrance lobby of the building?  
.....
31. How many staircases have been provided in the building? Please indicate in each case: -
- a) Width of the stairway.....
  - b) Width of treads.....
  - c) Height of risers .....
  - d) If the treads are of the non-slip type.....
32. What is the average occupant load per floor?.....
33. Whether fire tower has been proposed? .....
34. How many lifts have been installed in the building? Please indicate in each case:
- a) The floors between which the lifts runs.....
  - b) The type of doors fitted to the lift Car and at each landing.....
  - c) Fire resistance rating of lift Car and landing doors, if known .....
  - d) Floor area of the lift car.....
  - e) Loading capacity of the lift car .....
  - f) Has communication system been installed in the lift car? .....
  - g) Has a fireman's switch been installed in the lift for grounding it in the event of fire  
.....
35. Have any stationary fire pump (s) been installed or pressuring the wet riser? If so, please indicate.
- a) The number of pumps.....
  - b) The size of suction and delivery connection of each pump .....
  - c) The output of each pump .....
36. Has the building been protected with sprinkler system, If so, detail of sprinkler pump.....

37. Has a standby source of power supply been provided? If it is through a generator, please indicate.
- The capacity (output) .....
  - The functions that can be maintained simultaneously by the use of the Generator, such as operating lift(s); fire pumps, emergency lighting etc.
  - system; exit signs; PA system etc. ....
  - Is the generator automatic in action or has to be started manually?.....
38. Has any Yard hydrant been provided from the building's fire pump? .....
39. Where more than one lifts are installed in a common enclosure have individual lifts been separated by fire resisting walls or 2 hours fire rating? .....
40. Has the lift shaft(s) lift lobby or stairwell been pressurized? If so, give details.....
41. Has the lift lobbies and staircase been effectively enclosed to prevent fire/smoke entering them from outside at any floor? .....
42. Have all exits and direction of travel to each exit been sign-posted with illuminated signs? .....
43. Has a false ceiling been provided in any portion of the building? If so, please indicate location and also mention if the material used for the false ceiling is combustible or non-combustible .....
44. Is the building centrally air-conditioned? if so, please indicate:
- The material used for construction of ducts and its fittings.....
  - The type of lining used for ducts, if any.....
  - The type of lagging used for ducts, if any for insulating any portion of the duct; please also indicate how the lagging is secured.....
  - If plenum is used for return air passage has it been protected with fire detectors? Please give details.....
  - Has a separate A.H.U. been provided for each floor?
  - Whether automatic shutdown of A. H. U. is coupled with detection system /sprinkler system.....
  - Is the ducting for each floor effectively isolated or is it continuous on more than one floor? .....
  - Are the fire dampers being provided?.....
45. Where are the switchgear and transformer located? If inside the building please indicate: .....
- If the switchgear and transformer (s) have been housed in separate compartments, effectively separated from each other and other portions of the building by a four-hour's fire resistive wall? .....
  - What precautions have been taken to prevent a possible fire in the transformer (s) from spreading? .....
  - Are transformer protected by high velocity water spray system.....
- 46 I) Where electrical cables, telephone cables wet risers / down comers pass-through a floor or wall has the spaces (apertures) round the cables /pipes been effectively sealed/plugged with noncombustible, fire resistance material?.....
- II) Ventilation
- Whether natural ventilation is relied upon? If so, give details of the vents for the stairwell life shafts.....
  - Whether mechanical ventilation has been proposed? If so, give details of the proposed system indicating the number of air changes for the basement and other floors .....
  - Whether mechanical ventilation is coupled with automatic detection system/sprinkler system? Please give details of the system.....
47. Please indicate the number and type of fire extinguishers provided at various locations and the arrangement for the maintenance of the extinguishers .....
48. Please indicate if all fire extinguishers bear the BIS mark.....
49. Whether the refugee area has been provided? If so, the floor on which provided and the total area provided floor-wise.....
50. Are the occupants of the building systematically trained in fire prevention, use of fire extinguishers and emergency procedures? If so, please give details.....
51. Does an emergency organization exist in the building? If so, please give details and append a copy of the emergency (fire) orders.....

52. Has a qualified officer been appointed for the building either individually or jointly with other building(s).....

53. Has the building been protected against lightning? If so, does the lighting protection conform to any code? Please indicate details provision of MCB and ELCB in the building.....

54. The work has not been started on site and construction will be started only after final approval of the Authority / the position of construction at site is given below:

.....  
Name and address of the consultant with Registration No.....

Owner's Signatures Signature of the Applicant / Architect /Engineer

Name..... Name.....

(In block letters) (In block letters)

Designation.....

Organization.....

Signature of Fire Consultant

Dated:

Name.....

(In block letters)

Remark of the concerned Authority. The proposal has been broadly examined. The above information is correct and the proposal is permissible as far as development Authority is concerned (Additional comments, if any, may be given below or attached):

The proposal can be considered by Fire Services at conceptual stage/is forwarded to Fire Service along with 3 sets of drawings which are according to bye-laws, Master Plan, Zonal Plan, and firefighting regulations and policy instructions of Government. The proposal involves relaxation in respect of height/set-backs/ ..... The Architect/Engineer has been advised to furnish the requisite material and documents given in the attached list, within one week time directly to the Fire Service.

Signature of Authority

Name:

Designation and office Seal:

#### **APPENDICES**

#### **APPENDIX-I**

#### **PROCEDURE FOR REGISTRATION OF VARIOUS STAKE HOLDERS WITH THE AUTHORITY**

The Stake holders to be registered with the Authority are;

- A. Land owners who intend to apply for building licence in the plot owned by them.
- B. Promoters who are developing Real estate projects within the jurisdiction of the Authority
- C. Professionals on record for preparing drawings (for building licence and for NOCs from different departments)
- D. Professionals on record for supervising the works executed in site (civil works and other services)
- E. Professionals who are interested in registering with the Authority as Empanelled Professionals to verify the site plan with reference to the site conditions, verify the works executed in site with reference to the various drawings submitted, and to certify the building licences as notified by the government.
- F. Contractors intending to undertake construction activities within the jurisdiction of the ULB (for Civil, electrical, Plumbing and Sanitation, HVAC, Fire and Emergency services)

The following procedure shall be adopted by the ULBs to register the Stake holders with the ULB;

1. The Stake holders shall register themselves with the Authority by providing their identity proof, submitting an undertaking cum affidavit (in the format prescribed by the government) and payment of the prescribed fees.
2. The landowners who intend to apply for building licence in the plot owned by them, shall submit the particulars of the plot and the building proposed to be constructed on the plot, while registering with the Authority whenever he proposed to develop a building.
3. The Promoter who intends to develop real estate project within the jurisdiction of the ULB, shall do a onetime registration with the Authority.

4. Professionals intending to prepare the required drawings and details (Architectural, Structural and Services), the Professionals intending to prepare the required drawings and details for obtaining NOCs from the concerned departments and the Professionals intending to supervise the construction of the various components of the building shall do a onetime registration with the Authority in the respective category based on the eligibility criteria of Qualification, Experience and Competence, notified by the Government.

5. Professionals who are interested in registering with the Authority as Empanelled Professionals to verify the site plan with reference to the site conditions, verify the works executed in site with reference to the various drawings submitted, and to certify the building licences as notified by the government shall do a onetime registration with the Authority in the respective category based on the eligibility criteria of Qualification, Experience and Competence, notified by the Government.

6. Contractors intending to undertake construction activities within the jurisdiction of the ULB (for Civil, electrical, Plumbing and Sanitation, HVAC, Fire and Emergency services) shall do a onetime registration with the Authority.

7. The procedure for registration and allotting the registration no. for the stake holders and the fee payable for empanelled professionals for verifying the works executed at site shall be as prescribed by the Government.

## **APPENDIX-II**

### **DETAILS OF PLANS AND OTHER PARTICULARS TO BE SUBMITTED FOR SANCTION FROM THE AUTHORITY FOR DIFFERENT TYPES OF BUILDINGS.**

#### **A – Requirements of Key Plan**

Key plan which is provided along with the drawings of the Plot Approval obtained after the commencement of the KTCP (Approval of plot) Rules 2017 shall be accepted as the Key plan which shall be part of the site plan. In case of Plot Approval obtained prior to KTCP (Approval of plot) Rules 2017, the key plan shall be prepared in a legible scale showing the location of the plot in the Master Plan containing the following features within 1 Km around the plot, namely: -

- (a) Location of all existing and proposed roads of the Master Plan mentioning the existing and proposed width and hierarchy of roads;
- (b) Location of all existing Storm Water Drains and other water bodies;
- (c) Location / Alignment of overhead or underground HT power supply lines (High Tension Electric lines);
- (d) Location / Alignment of sewerage system of ULB;
- (e) Index of drawing as specified in **Appendix-III**.

#### **B – Requirements of Site Plan**

The site plan shall be prepared in a legible scale, preferably of 1:200 or 1:500 with plan oriented in North-South direction. The Site Plan which is part of the Plot Approval obtained after the commencement of the KTCP (Approval of plot) Rules 2017 shall be accepted as the site plan for the building plan approval under these byelaws. In case of Plot Approval obtained prior to KTCP (Approval of plot) Rules 2017, the site plan shall contain the following details, namely: -

- (a) All site boundaries with dimensions, by superimposing the survey sketch issued by Revenue Department and the survey sketch prepared by conducting physical survey of plot using Total Intelligent Station. At least 3 boundary points of both the sketches should match when superimposed. The innermost boundaries of the plot derived by superimposing both the sketches shall be considered as the boundary of the plot and the area of the plot within such boundary shall be considered as the extent of the plot as existing at site;
- (b) Extent of plot, which shall be lesser of the extent as per document or as existing at site (as derived from clause ‘a’ above);
- (c) All roads abutting the plot with existing width, proposed width and center line of the road. The road widening line and building line, if any, shall be marked on the plot, if applicable, showing the portion of the plot required for road widening;
- (d) Portion of Plot to be reserved for Park and Open Spaces and Civic Amenities, if required, as per KTCP (Approval of plot) Rules 2017
- (e) Land use as per Master Plan and the permitted land use as per Zonal Regulations;
- (f) Contours of the plot at 1m. intervals along with the levels of the adjoining plots and of the abutting roads;
- (g) Location with dimensions and extent of Kharab lands within the plot;
- (h) Location of roads of the Master Plan passing through the plot, if any;

- (i) Location of all natural features such as trees, water bodies (including wells, ponds, storm water drains, etc.) quarries including buffer area, etc.;
- (j) Location of city level sewerage and H.T. lines passing through the plot including buffer area;
- (k) Railway lines within 30m of the boundary;
- (l) Eligibility for relaxation of setbacks as per Common Zonal Regulations;

The following additional details shall be incorporated in the site plan which is provided along with Plot Approval;

- (a) Building footprint (portion of the floor plan of the building projecting above the ground) for Ground coverage and setbacks and the projections in the upper floors, beyond the footprint area (in dotted line).
- (b) Details of constructions provided in the setback area of the plot, including ramps (along with slope of ramp), driveway and also the parking spaces provided in the open yard.
- (c) Details of the over ground and underground services provided such as water supply, sewerage, power supply and telecommunication system and details of the rain water harvesting system (pipelines, cables, chambers, manholes, transformer and generator yard / substation, STP and pump room, solid waste management plant, etc.).
- (d) Entry and Exit to plot with gate and entry / exit arch details.
- (e) Levels contiguous to the building and the boundaries / corners of the plot.
- (f) Details for identification of neighbouring properties.
- (g) Portion of the plot reserved for Civic Amenities.
- (c) Index of drawing as specified in **Appendix-III**.

#### **C – Requirements of Floor Plan for parking area**

The following details shall be provided in the plan of the floor showing parking area (for full or portion of the floor)

- (a) Details of entry / exit ramps (ramp from outside the building to the parking floor and ramp between parking floors, as applicable), such as number of ramps, width of the ramp and slope.
- (b) width of all driveways in the parking area and the width of the parking bays abutting the driveway.
- (c) Width of columns provided in the parking floors and clear spacing between the columns, location of staircases, lifts and toilets.
- (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
- (f) Minimum Setback line from the boundary of the plot and in case of basement floor, the distance between the boundary and the parking floor periphery.
- (g) Any other uses proposed within the parking area / floor.
- (h) no. of parking bays provided (4 wheeler and 2-wheeler), separately showing single parking, double parking (one behind the other and one above the other – mechanical parking) and automatic parking devices adopted such as car lift etc. (along with the approval of the agencies notified by the Government), as applicable.
- (i) Index of drawing as specified in Index of drawing as specified in **Appendix-III**.

#### **D – Requirements of Floor Plans of other uses**

##### **(1) Residential:**

Separate floor plans for each of the typical floors have to be prepared with the following details;

- (a) Plan of the dwelling units with areas of sub uses such as foyer, living, dining, bedroom, study, kitchen, bathroom, WC, toilet, balcony etc. mentioned separately. The carpet area (excluding exterior wall and balcony of the dwelling unit) and plinth area (including exterior wall and balcony of the dwelling unit) of the dwelling unit has to be mentioned.
- (b) Room dimensions and details of doors, windows, ventilators, duct doors and other openings shall be shown.
- (c) All common areas such as staircases and lifts, corridors / passages, service / ventilation ducts, stores, entrance lobby etc.
- (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
- (f) Minimum Setback line from the boundary of the plot and balconies projecting beyond the setback line.
- (g) No. of dwelling units in each floor (details of all types of dwelling units) and no. of typical floors.
- (h) Terrace floor plan with details of open terrace, covered terrace, staircase room, lift / lift machine room, overhead tank, toilets and other permitted constructions in the terrace floor. (If overhead tank and the lift machine room is located one level above the terrace floor, the same has to be specifically mentioned in the Terrace floor plan).
- (i) Section lines
- (j) Index of drawing as specified in **Appendix-III**.

**(2) Commercial:**

- Separate floor plans for each of the typical floors have to be prepared with the following details;
- (a) Plan of the commercial premises with areas of sub uses such as retail display area, office area, work area, stores, toilet, etc. mentioned separately. The carpet area (excluding exterior wall and balcony of the premises) and plinth area (including exterior wall and balcony of the premises) of the premises has to be mentioned.
  - (b) Room dimensions and details of doors, windows, ventilators, duct doors and other openings shall be shown.
  - (c) All common areas such as staircases and lifts, corridors / passages, service / ventilation ducts, stores, entrance lobby etc.
  - (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
  - (f) Minimum Setback line from the boundary of the plot and balconies projecting beyond the setback line.
  - (g) No. of premises in each floor and no. of typical floors.
  - (h) Terrace floor plan with details of open terrace, covered terrace, staircase room, lift / lift machine room, overhead tank, toilets and other permitted constructions in the terrace floor. (If overhead tank and the lift machine room is located one level above the terrace floor, the same has to be specifically mentioned in the Terrace floor plan).
  - (i) Common toilets requirements and provisions made.
  - (j) Details of all staircases provided (width, tread, riser, landing, handrail, head room, no. of steps in each flight).
  - (k) Details of corridors / passage (minimum width required and width provided, parapet details)
  - (l) Section lines
  - (j) Index of drawing as specified in **Appendix-III**.

**(3) Other non-residential and non-commercial:**

All details similar to that of commercial use except details of no. of premises, carpet area and plinth area of the independent premises in the floors, within the non-residential and non-commercial uses.

Index of drawing as specified in **Appendix-III**.

**E – Requirements of Sections of Building**

Drawings for the vertical sections cut across the floor plans of the building in such a way that any one or more section drawings shall cut across all the main staircases connecting all the respective floors of the building.

Section drawings shall also be drawn across all the floors wherever the plan of a floor projects outward or recedes inward from the lower floor, including section cut across upper Ground floor and lower ground floor, if applicable.

The section shall also cut across maximum earth cut or fill areas of the plot showing the original ground level and the formed ground level with the proposed retaining wall details. The section shall also show the general foundation details of the building.

The section drawings shall mark all the building components and structural elements (foundation, walls, slab & beams, roof, etc.,) along with the dimensions. The type of material for each component shall also be mentioned.

The section drawing shall also show the ground levels contiguous to the building, average ground level contiguous to the building and also the levels of each floor. The section drawing shall also have the floor to floor height (including mezzanine floor, if applicable) and the height of the building measured from the average ground level contiguous to the building or the road level, as the case may be, to the terrace floor level or the roof level, as the case may be.

Index of drawing as specified in **Appendix-III**.

**F – Requirements of Elevation of buildings**

Elevation drawings shall be drawn for all side elevations showing the structural features of the building visible on each elevation such as windows and other openings, slab and other architectural projections.

Height of the building with reference to ground level or road level.

Index of drawing as specified in **Appendix-III**.

**G – Requirements of Drawings for all services provided**

**a – Electrical system including use of alternate energy**

Electrical drawings of all floors showing the location of electrical fixtures, switch boards, etc., both inside the specific use areas and common areas along with fixture schedule.

Details of electrical ducts (horizontal & vertical), panel room, 11KV sub-station (transformer and other requirements) and generator facilities.  
 Single line diagram of the power distribution system.  
 Details of alternate energy sources provided  
 (as detailed in **Clause 5.3**)

**b- Water Supply system**

Drawings showing Plumbing pipelines and fixtures inside the toilets of specific use areas and common areas with fixture schedules.  
 Pipeline details in Sanitary ducts and connectivity to overhead and sump tanks and connectivity from Municipal water supply line and water pumping system.  
 Details of Solar water heating system  
 (as detailed in **Clause 5.3**)

**c – Rain Water harvesting & ground water recharging system**

Drawings showing Terrace water collection, filtration and connection to sump tank or ground water recharging pits.  
 Ground water recharging  
 (as detailed in **Clause 10**)

**d – Sewerage system**

Drawings showing Drainage pipelines and sanitary fixtures inside the toilets of specific use areas and common areas with fixture schedules.  
 Inspection chambers and manholes in the ground and connectivity to Municipal sewer lines or sewage treatment plant.  
 (as detailed in **Clause 5.3**)

**e – HVAC system**

A. Floor Plan

1. Corresponds to submitted or previously approved building plans, including interior layout, room names & uses, wall & roof insulation R-values, door/window/skylight U-factors
2. Location, volume, and/or rates in CFM of exhaust, make-up air, outdoor air and combustion air
3. Location of equipment & appliances, fire, smoke and ceiling radiation dampers, grease duct wraps  
 kitchen hood exhaust duct, grease duct enclosures, suppression systems, controls, monitors, etc.
4. Duct sealing requirements stated
5. HVAC distribution via ductwork, sizing, location
  - a. Metal duct gauge, geometry (round, square, rectangular)
  - b. Flexible duct diameter, specification
  - c. Flexible connector diameter, length limitations
  - d. Underground duct construction, materials, vapor barriers, insulation (R-values), clearances, cross section, slope
  - e. Plenum construction materials and locations

B. Sections or Details

1. Insulation for duct or pipe; type, R-value labeling required on plans and in the field
2. Pipe: size, type, hydronic or gas
3. Exhaust rates in CFM
4. Kitchen hood construction information provided
5. Air transfer to corridors only as allowed by code
6. Clothes dryer exhaust duct distribution, length, access doors, etc.
7. Metal duct gauge, geometry, means of fastening, maximum length
8. Transition duct limitations & requirements
9. Grease duct wrap defined for manufacturer and type
10. Hydronic systems have floor assembly which meets minimum under-floor/slab insulation and testing requirements

### C. Equipment Information

1. Equipment schedules or similar provided which define equipment type, capacities, efficiencies, kitchen hood suppression, as well as associated air rates in CFM
2. Listing shows compliance with ASTM/UL/NFPA/ANSI etc. standards as required to be met by the code
3. Operation, setback/demand control ventilation/operational controls/interlocks sequencing of all equipment, and location of controls
4. Provision of economizer indicated if required as part of installation
5. Provision of make-up air
6. Platform & clearance locations for rooftop equipment defined
7. Roof access indicated on plans (if required)
8. Guardrail location and dimensions for roof equipment as required by code
9. Condensate disposal location indicated
10. Duct smoke detection system (if required)
11. Duct smoke detector locations, model defined, installation defined (on return only or return & supply), sequence of operation defined
12. Control panel location, model
13. Smoke control system
14. Apparatus used (based on submitted calculations)
15. Designate pressure classification of the duct system based on inches w.g.
16. Fire, smoke & ceiling radiation dampers defined for ratings, locations & operations
17. Hydronic systems fully defined for type of, length of, size of, flow rate in pipe; testing requirements addressed, under floor insulation (shall be addressed in building envelope calculations)
18. Structural weight of rooftop equipment listed on plan and associated structural design accounted for

### D. Calculations

1. Room by room heat loss calculations, not just an overall summary
2. Heat gain calculations may be done by area served by appliance (if AC provided)
3. Transmission plus greater of infiltration or ventilation (furnace sizing)
4. Structural calculations provided to verify that weight of proposed appliances does not exceed load bearing capability of roof, mezzanine, platform, etc.
5. Volume of exhaust and outdoor air intake are approximately the same
6. Smoke control system sizing
7. Outside air required for each room/space where different occupancies are served by one appliance

### E. Ventilation Criteria

1. Mechanical ventilation rates used meet minimums listed in SPS Table 364.0403 (or as justified and found acceptable by the Dept.)
2. Natural ventilation as allowed by SPS Table 364.0402
3. Exceptions met and clearly stated on plans or in calculations

### F. Minimum Clearances

1. Exhaust & outside air intakes to property lines & buildings
2. Distance between intake to exhaust ventilation openings
3. Overhead clearances (suspended appliance)
4. Location of intakes above ground/roof
5. Combustible material clearances to heat-producing appliance

### G. Type of fuel used by HVAC equipment

1. Natural Gas
2. Electricity
3. Fuel Oil
4. Wood or pellets

**H. Combustion Air**

1. Provide calculations used to determine if internal building air can be used, or if outside combustion air is required to be provided
2. Define number, location and size of transfer ducts, and louver/grill openings

**I. Balancing Report is Required to be On-Site****J. Maintenance & Operation Manuals are Required to be Provided to Owner**  
(as detailed in **Clause 5.3**)**H – Requirements of Landscape plan**

Land scape plan shall be enclosed with the application for building licence in case of building proposed in plots above 4000 sqm. The following details shall be provided in the land scape plan

- (a) Building foot print and all other constructions proposed in the yard including details of the over ground and underground services provided such as water supply, sewerage, power supply and telecommunication system and details of the rain water harvesting system (pipelines, cables, chambers, manholes etc.)
- (b) Details of the parking spaces and other concreted or paved areas provided in the yard.
- (c) Area reserved for park and open spaces (as per the provisions of KTCP (Approval of plot) Rules 2017)
- (d) Areas proposed to be developed as green space (including in the areas reserved as park and open spaces)
- (e) Type of land landscape, plantation, trees proposed.
- (f) Index of drawing as specified in **Appendix-III**.

**I – Requirements of Circulation Plan and Traffic study & Impact**

Detailed calculations of traffic studies conducted in the locality and the impact of the development proposed, on the existing traffic scenario.

(as detailed in Chapter 6)

**J – Requirements of Structural Drawings**

Structural drawings show the structural support components and details of the proposed project, from the foundation to the rooftop. All structural systems for a building that is designed must be signed and sealed by a licensed engineer.

Minimum information requirements for structural drawings include, but are not limited to, the following:

- Foundation plans, pile design (with layout), details, sections and all applicable schedules ex.(pile schedules)
  - Slab-on-grade and slab plans, section and details
  - Cast-in-place concrete floor plans
  - Floor framing plans, sections and details
  - Roof framing plans, sections and details
  - Structural steel framing plans, sections and details
  - Pre-engineered building design certificates and drawings
  - Load bearing walls, pads, columns, beams and joists
  - Pre-cast concrete plans, details and sections
  - Connection details for all components
  - Retaining walls
  - Building mounted antennas
  - Large, heavy or high signs
  - Pedestrian bridges, crane runways, and other special structures
- (as detailed in Chapter 6)

**K – Requirements of Green Building drawings**

(as detailed in Chapter 10)

**APPENDIX-III****INDEX FOR THE DIFFERENT TYPES OF DRAWINGS SUBMITTED****A – Index of Key Plan**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Existing and proposed width of roads abutting the plot
7. Marking of North direction
8. Date of approval

**B – Index of Site Plan;**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Existing and proposed width of roads abutting the plot
7. Extent of plot
  - (a) Total extent (as per document, as per site condition and considered for building licence)
  - (b) Extent to be surrendered for road widening (whether compensation paid – monetary or in the form of DR)
  - (c) Extent to be surrendered for P & OS and CA, if applicable.
  - (d) Net area for development
  - (e) Net area considered for FAR calculation
8. Land use analysis
  - (a) Land uses of plot as per Master Plan
  - (b) Permitted land uses as per Zonal regulations
  - (c) Existing land use of areas in the plot (% of area for roads, Park & Open Space and Civic Amenities, if applicable and % of area for development).
9. Summary of area statement of buildings with floor wise area details and FAR (permitted and proposed including DR / TDR).
10. Ground coverage (permitted and proposed)
11. Setbacks (required and provided)
12. Parking space (required and provided)
13. Public Toilet for Commercial Buildings (required and provided)
14. % of floor areas provided for community facilities, in case of Group housing.
15. Details of Means of Access, if applicable.
16. Marking of North direction
17. Date of approval

**C – Index of Floor Plan for parking area**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Land use analysis
  - (a) Land uses of plot as per Master Plan
  - (b) Permitted land uses as per Zonal regulations
  - (c) Proposed land use for different specific uses in the floor (% of floor area for different specific uses in the floor, including the proportionate percentage of common areas)

6. Summary of area statement, including floor area of buildings with floor wise area details required for calculating parking space requirement.
7. Parking space (required and provided)
8. Date of approval

#### **D – Index of Floor Plans of other uses**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of area statement of floor with details of total construction areas, areas considered for FAR & exempted from FAR, toilet areas, specific use areas & common areas, areas considered for parking calculations and details of FAR (permitted and proposed including DR / TDR).
7. Schedule of openings
8. Carpet area and plinth area of individual dwelling units and commercial premises in the floor.
9. no. of staircases and lifts (width of each staircase and capacity of each lift)
10. Public Toilet for Commercial Buildings (required and provided)
11. % of floor areas provided for community facilities, in case of Group housing.
12. No. of seats in case of Assembly buildings and no. of beds in case of hospitals and nursing homes.
18. Date of approval

#### **E – Index of Sections of Building**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Date of approval

#### **F – Index of Elevation of buildings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Date of approval

#### **G – Index of Drawings for all services provided**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the particular service provided (minimum requirements and provisions made)
7. Date of approval

#### **H Index of Landscape plan**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the land scape details provided (type of landscape and tree plantation made)
7. Date of approval

### **I – Index of Circulation Plan and Traffic study & Impact**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the road network provided in the development plan
7. Summary of traffic study conducted and impact (critical conditions and provisions made)
8. Date of approval

### **J – Index of Structural Drawings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the structural design and drawings (minimum requirements and provisions made)
7. Date of approval

### **K – Index of Green Building drawings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the Green building requirements (minimum requirements and provisions made)
7. Date of approval

### **APPENDIX-IV**

### **DETAILS OF PLANS AND OTHER PARTICULARS TO BE SUBMITTED FOR NOCS FROM OTHER DEPARTMENTS FOR DIFFERENT TYPES OF BUILDINGS.**

(as prescribed by the respective departments)

### **APPENDIX-V**

### **PROCEDURE FOR EMPANELMENT OF PROFESSIONALS BY THE AUTHORITY AND SELECTION OF EMPANELLED PROFESSIONALS**

The following procedure shall be adopted for empanelling the professionals by the respective ULBs and to select the empanelled professional for site inspection to verify the various components of buildings executed at site and also to certify building licence as notified by the government;

1. The eligibility of empanelled professionals to verify different types of buildings, based on the qualification, experience and competence shall be fixed as notified by the government.
2. Every ULB shall call Expression of Interest from eligible professionals for empanelment.
3. The ULB shall register the professionals for empanelment as specified in **Appendix-I**.

4. The ULB shall select the empanelled professionals for inspecting the site and submitting site inspection report as specified in these byelaws based on the predetermined logic notified by the Government.

5. The empanelled professional selected by the ULB for inspection of any building site, shall confirm his acceptance to undertake inspection work and submit site inspection report (within the timelines specified in **Appendix-VIII**), on the same day of receiving intimation from the ULB, failing which the ULB shall select another empanelled professional as per the predetermined logic notified by the Government.

#### **APPENDIX-VI**

#### **DETAILS OF DOCUMENTS TO BE SUBMITTED FOR BUILDING LICENCE**

The following documents shall be submitted along with the application, namely:-

- (a) RTC as per date of application;
- (b) Extract of Mutation Register;
- (c) Copy of the Title document such as Sale Deed, etc.;
- (d) Copy of the registered document of GPA / authorisation letter, if applicable;
- (e) Joint development Agreement or MOU and affidavit of all the owners of plots amalgamated for approval of plot;
- (f) Latest Encumbrance Certificate;
- (g) Survey sketch issued by Revenue Department for conversion purpose;
- (h) Conversion Order;
- (i) LAQ NOC;
- (j) All applicable NOCs from other departments;
- (k) Photographs of the site (minimum 4 nos., each from north, south, east and west) showing the natural and built developments within the site and also the abutting roads;
- (l) Copy of the plot approval obtained
- (m) Photo and other identity proof of the applicant;
- (n) Specifications of the buildings and
- (o) Any other documents notified by the Government;

#### **APPENDIX-VII**

#### **VARIOUS FEES FOR SANCTION OF BUILDING LICENCE AND OTHER FEES PAYABLE AS PER THESE BYE-LAWS**

The following fees shall be paid for sanction of building licence at the rates specified by the ULB or notified by the government.

1. Scrutiny fee
2. Licence fee
3. Infrastructure cess
4. Solid waste management cess
5. Greenery cess
6. Inspection fee
7. Construction and demolition waste disposal cess
8. Labour cess
9. Refundable Security Deposit
10. Fees for respective NOC

### **APPENDIX-VIII**

**TIMELINES FOR DIFFERENT ACTIVITIES FOR ISSUING BUILDING LICENCE, NOCS AND CERTIFICATION OF WORKS EXECUTED AT SITE AS PER THE CONDITIONS OF NOC, BY DIFFERENT DEPARTMENTS, FOR DIFFERENT TYPES OF BUILDING.**

**Timeline for issuing NOCs**

S.I No.	Type of approval	Approving Authority	Stage of project	Normal Duration (Days)	Reduced Duration (Days)	Activity Sequence
A	Intimation of Disapproval (IoD)	Development Authority/ Municipality	Pre construction	30	5	Start Activity
B	Site & Building Layout approval	Development Authority/ Municipality	Pre construction	30-60	5	Following A
C	NOC (if near sea/coastal areas)	Coastal Zone Management Authority	Pre construction	30-60	10	Following B
D	Road access	NHAI/PWD	Pre construction	30	10	Following B
E	Ancient Monument approval	Archaeological Survey of India (ASI)	Pre construction	30	10	Following B
F	Environment Clearance	Ministry of Environment	Pre construction	180	Only for large project	Following B
G	Borewell Registration Certificate	Central Ground Water Authority	Pre construction	15	5	Following B
H	Fire Fighting Scheme Approval	Fire Department	Pre construction	30	15	Following B
I	AAI Height NoC	Civil Aviation Department	Pre construction	30-60	10	Following B
J	Defence Clearance	Ministry of Defence	Pre construction	180	10	Following B
K	Building Permit Issue (All NOCs)	Development Authority/ Municipality	Pre construction		1	Max of After C-J
<b>Sub total</b>					<b>26 (Max)</b>	
L	Electric Substation NoC (substation /transformers in the building)	Electricity Distribution Authority	During construction	15	5	After K
M	Damp Proof Certificate (On Site)	Development Authority	During construction	7	3	After K
N	Pollution Clearance	State Pollution control Board	During construction	30-60	5	After L
Ø	<b>Construction Complete</b>	<b>Construction Time depends on the project Scale and Size</b>				
O	Building completion Certificate	Development Authority/ Municipality	Post construction	30-60	5	After Ø
P	Service Plan Clearance and Service Connections	Service Departments/ Parastatals	Post construction	30	10	After O
Q	Occupancy Certificate	Development Authority/ Municipality	Post construction	15	2	After P
<b>Sub total</b>					<b>17 (Max)</b>	

**Explanatory Notes:**

1. The above Table and Chart indicates that the processes after the applicant applies for building approval with clear land title and possession of land. Hence, clearances related to CLU and Land Title has not been considered.
2. The table illustrates the duration of clearances obtained in Normal course and suggests the reduced duration of 26 days (PreConstruction) if the Approving Authority adopts online sanctions.
3. Clearances indicated at S Nos. C-J are concurrent with applications at the pre-construction stages, wherein their process of approval can be taken up simultaneously.
4. Clearances indicated at S Nos. L-N are concurrent with applications during-construction stage, wherein their process of approval can be taken up simultaneously.
5. S No. P has to be linked with S No. O, once applicant receives the Completion Certificate, service plan clearances and connections would be deemed to be sanctioned.

**Timeline for issuing building licence**

Sl. No	Description of Standard Activities	Description of Additional Activities	Timelines for different types of approvals for different types of buildings (based on height)															
			Act. (A) /Cum. (C)**	B1			B2			B3			B4			B5		
				a*	b*	c*												
<b>Activities for all types of Approval of Plot</b>																		
1	The CEO of the Authority to verify the documents submitted along with the application.		A	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
			C	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
2		Issuing endorsement in case of discrepancy	A	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
3		Applicant to rectify the defects and resubmit the documents and acceptance of the same by the designated officer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Evaluation of the Technical drawings and details submitted and acceptance of the same by TPO or the empanelled professionals or the designated officers, as the case may be, if the documents submitted are accepted by the CEO and also verification of compliance of conditions incorporated for obtaining NOCs from different departments.		A	2	2	2	3	3	3	4	4	4	6	6	6	5	5	
			C	3	3	3	4	4	4	6	6	6	9	9	9	8	8	
5	Submission of evaluation report to the CEO, with or without changes		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	3	3	3	4	4	4	6	6	6	9	9	9	8	8	
6	CEO to approve the technical drawings and details submitted, with the changes recommended by the TPO or the empanelled professional or		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	4	4	4	5	5	5	7	7	7	10	10	10	9	9	

	the designated officer, as the case may be.																	
7		Issuing endorsement by TPO, in case of discrepancy in the Technical details submitted	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8		Applicant to rectify the defects and resubmit the technical drawings and details and acceptance of the same by the TPO or the empanelled professional or the designated officer, as the case may be.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	CEO to forward application, technical drawings and details submitted for NOCs, to the concerned departments, along with required fees paid by the applicant, if the technical drawings and details submitted by the applicant is approved by the CEO.		A	-	-	-	-	-	-	-	-	1	1	1	1	1	1	
			C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	CEO to forward the required details to the selected empanelled professional for site inspection to verify the site plan submitted.		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	5	5	5	6	6	6	8	8	8	11	11	11	10	10	10
11	Site inspection & submission of Inspection report by empanelled professional, to the CEO, with or without noting of discrepancy.		A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
			C	7	7	7	8	8	8	10	10	10	13	13	13	12	12	12
12	Approval of Site Inspection Report by the CEO, by		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	8	8	8	9	9	9	11	11	11	14	14	14	13	13	13

	accepting or rejecting the noting of discrepancy, if any.																
13		Issuing endorsement in case of discrepancy in the Site Inspection Report accepted by the CEO	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14		Applicant to rectify the defects and resubmit the respective drawing and detail as per the endorsement and acceptance of the same by the TPO		-	-	-	-	-	-	-	-	-	-	-	-	-	-
15		Receipt of all required NOCs from the respective departments.		-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	On receipt of all the required NOCs and approval of site inspection report by the CEO, the CEO to sanction the building licence and forward the challan for payment of fees, to the applicant.		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			C	9	9	9	10	10	10	12	12	12	15	15	15	14	14
	Payment of Fees by land owner / promoter for the NOCs and building licence.			-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CEO to issue building licence and the NOCs received from the concerned departments.		A	1	1	1	1	1	1	1	1	1	2	2	2	2	2
			C	<b>10</b>	<b>10</b>	<b>10</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>16</b>

**\*a - new construction**

**b- addition / Alteration**

**c-revised licence**

**\*\* - A - Timeline for each activity**

**C- Cumulative timeline upto that activity**

**APPENDIX-IX****PROCEDURE FOR SITE INSPECTION BY EMPANELLED PROFESSIONALS AND SUBMISSION OF SITE INSPECTION REPORT.**

The following procedure shall be followed for Site inspection and submission of Site Inspection report.

1. CEO shall intimate the selected Empanelled Professional or the designated officer, as the case may be, to inspect the site and submit Site inspection report within the timelines prescribed in **Appendix-VIII**.
2. CEO shall forward copies of the relevant documents and drawings submitted by the Applicant, to the selected empanelled professional or designated officer, which are required to be verified at site.
3. The empanelled professional, shall intimate the Applicant and the Profession on record for drawings, tentative time and date (three options) for Site Inspection on the same day of receiving intimation from CEO and to be present at the site on the agreed date & time either in person or through his authorised representative along with the person who has conducted survey using total intelligent station.
4. The applicant and the professional on record, in mutual consent, shall select any one of the three options provided by the empanelled professional or designated officer, for site inspection and intimate the same to the Empanelled professional or designated officer. If the Applicant / professional on record does not intimate the Empaneled Professional or designated officer regarding the preferred date & time for site inspection, the empanelled professional or designated officer shall fix the site inspection at his convenient date and time (from the three options given by him) and intimate the applicant and the professional on record regarding the same.
5. The Empanelled professional or the designated officer shall inspect the site at the time and date jointly agreed by the Applicant and the professional on record for drawings or on the date fixed by the empanelled professional or the designated officer.
6. During the site inspection on the date and time fixed as mentioned in (5) above, in the presence of the applicant and professional on record or in their absence, as the case may be, the empanelled professional on record or the designated officer shall verify the site conditions for the following details submitted by the applicant.
  - (a) Photographs of the plot (by taking photographs from all four sides of the plot).
  - (b) Existing width of all roads abutting the plot
  - (c) Location of all natural features in the plot
  - (d) Location of city level sewer lines and HT lines passing through the plot.
  - (e) Building footprint and other constructions proposed on the site.
7. The empanelled professional shall mention any missing items (from the list mentioned in (6) above) or deviations (between the details submitted by the applicant and site conditions), in the site inspection report.
8. If the Applicant and professional on record are present during the site inspection, the empanelled professional shall note the acceptance or objections, as the case may be, of the observations made by the empanelled professional in the site inspection report, regarding the missing items or deviations.

The empanelled professionals shall send the site inspection report with noting of deviations, if any, in the prescribed format, to the Authority, within the timelines specified in **Appendix-VIII**.

**APPENDIX-X****VALIDITY PERIOD OF SANCTION AFTER COMMENCEMENT OF WORK AT SITE AND EXTENSION OF VALIDITY.**

1. Validity period for commencement of work – 2 years
2. Initial validity period for completion of work
  - a) B1, B2 and B3 buildings – 2 years from the date of commencement of work
  - b) B4 and B5 buildings – 3 years from the date of commencement of work
3. Extension of validity

Extension of validity may be permitted by paying yearly revalidation fee as prescribed

**APPENDIX-XI****DETAILS TO BE MAINTAINED IN THE SITE/ SITE OFFICE OF THE CONSTRUCTION SITE.**

The person to whom a permit is issued shall, during construction keep, posted in a conspicuous place on the property in respect of which the permit was issued

- a) A copy of the building permit;
- b) A copy of the approved drawings and specifications of the property in respect of which the permit was issued.
- c) Where tests of any materials are made to ensure conformity with the requirements of the Bye-laws, records of test data shall be kept available for inspection during the construction of the building and for such a period thereafter as required by the Authority.

**APPENDIX-XII****STAGES OF CERTIFICATION OF VARIOUS COMPONENTS OF BUILDING EXECUTED AT SITE BY EMPANELLED PROFESSIONALS**

1. Commencement of work
2. Completion of foundation
3. Completion of each RCC slab (floors and terrace)
4. Exterior masonry completion in each floor
5. Completion of building exterior works and common areas
6. Completion of yard works and services
7. Completion of all works

**APPENDIX-XIII****A. REQUIREMENT OF NUMBER AND TYPE OF LIFTS****Number and Type of Lifts Required for Different Occupancies and Space for Electrical Installations**

1. The number and type of lifts required depending on the capacity of lift, desired speed nature of operation are as given in table below:

**Table: Number and types of lifts for non-residential Multistoried Building**

Sl. No.	No.of floor	Capacity of lifts in person	Speed m/s	No. of persons that can be carried by a lift							
				In 6 min		In 30 min		In 50 min		In 60 min	
1	2	3	4	5	6	7	8	9	10	11	12
1	7	6	0.6-0.75	17	-	102	-	170	-	204	-
2	7	8	0.6-0.75	22	-	132	-	220	-	-	-
3	7	10	0.6-0.75	26	-	156	-	260	-	312	-
4	7	10	1.0	30	-	180	-	300	-	360	-
5	7	13	1.0	37	-	122	-	370	-	444	-
6	11	6	0.6-0.75	11	-	70	-	115	-	140	-
7	11	8	0.6-0.75	15	-	90	-	150	-	180	-
8	11	10	0.6-0.75	18	-	108	-	180	-	216	-
9	11	13	0.6-0.75	22	-	132	-	220	-	264	-
10	11	10	1.0	21	-	126	-	210	-	252	-
11	11	10	1.5	24	-	144	-	240	-	288	-
12	11	13	1.5	28	-	156	-	260	-	312	-
13	11	13	1.5	32	-	180	-	300	-	-	-
14	16	10	1.0	17	-	100	126	170	210	-	252
15	16	13	1.5	20	24	120	145	200	240	248	290
16	16	13	1.5	23	30	138	180	138	300	-	360
17	16	16	1.5	25	33	150	198	150	330	300	356
18	21	10	1.5	18	32	108	132	108	220	214	264
19	21	13	1.5	21	26	126	156	126	250	250	312
20	21	14	1.5	23	28	138	168	138	280	-	-

**Note-1:**

- a) For all non-residential buildings, the traffic cleared in 50 minutes is considered adequate and is approved by Authority. As such for calculation the number of lifts required, the rate of the clearance of traffic in column 9 and 10 and the population may be taken into consideration.

b) In addition to total number of lifts required as above, provision of one lift of the same capacity may be considered to serve as stand-by.

**Note-2:** The population may be worked out on the basis of useful carpet area which the person occupies (excluding area of Verandah, Lobbies, Halls, Passages, Lavatory blocks, etc.)

**Note-3:** The population on ground and first floor may not be taken into consideration since these floors are not generally served by lifts.

**Note-4:** 0.75 meter per sec. Equivalent to 150 ft. per Min.

1.00 meter per sec. Equivalent to 200 ft. per Min.

1.5 meter per sec. Equivalent to 300 ft. per Min.

**Note-5:** The height of buildings for lift installation i.e. the travel on the lift presumed in the above statements is as below:

7 floors 21.0 m.

11 floors 33.0 m.

16 floors 48.0 m.

21 floors 64.0 m.

**Table: Number and types of lifts for Residential Building**

Sl. No.	No. of floors	No	Passenger unit capacity Persons	Speed in m/s	Landing Gate Type	Central System	Service Lift No.	Capacity Persons	Type of Gate	Central System
1	5 to 8	2	6	0.0 to 0.5	*	Automatic push button operation both from car and landing	-	-	-	-
2	9 to 11	2	8	0.6 to 1	*	--Do--	1	8	-	Push button can handle switch control
3	11 to 13	2	8	0.6 to 0.74	*	-- Do-- and without collection system -- do --	1	8	-	-- do --
		1	6		Power operated doors					
4	13 to 19	2	8	1	-	--Do--	1	8	-	--Do--
		2	8	1	Power operated doors					

\* For buildings more than 15 m in height collapsible gates shall not be permitted.  
(see bye-law No. 7.9.1(f))

**Table: Dimensions and required information for Lift Installation in Building**

Carrying capacity of lift (persons) number	Load (kg)	Lift speed	Dimension of lift well front depth (in cm.)	(cm)	Leading Pit Entrance (Cm)	Dimension of Machine Room	Clearance from top floor landing to machine room flooring cm	Imposed load in tones on top of lift well due to installation. It may be noted that figures do not include weight of the machine from floors and well, etc.
1	2	3	4	5	6	7	8	12
4	272	Up to & including 1 m/s	175	115	70	140	230 275 245 450	6.5
6	408	--do--	195	135	80	140	230 335 275 450	7.0
8	544	Up to & including 1 m/s	200	170	80	150	245 395 275 450	8.5
10	680	Up to & including 1 m/s	225	170	90	150	245 395 305 470	10.5

13	884	--do--	235	188	90	150	245	425	335	470	13.0
16	1088	--do--	255	205	105	150	245	520	335	480	15.0
20	1360	--do--	255	220	105	150	245	520	335	480	15.0

**Note:**

- i) All lift well dimensions are minimum clear finished plumb requirements.
- ii) Where more than one lift is located in the lift well, extra width of 10 cm. Separator beam should be provided.
- iii) 1 m/s = 200 ft./min.
- iv) The height of landing entrance should be 210 cm. (about 7 ft.) for all lifts.

**B. REQUIREMENT FOR ELECTRICAL SUB STATION****Spaces for Electrical Installations**

The spaces required for different electrical installations are given at 3.1 to 3.3

**Electric Sub-station** – The norms given in 3.1.1 and 3.1.2 shall be adopted for provision of space for sub-station.

**Area Requirements for Sub-Station for buildings**

Sl.No.	Total covered Area (Sq.m)	Transformer Capacity (KVA)	Sub-Station Size Required (Sq.m)
1	2500	1 X 400	70
2	4500	1 X 630	70
3	8000	2 X 630	100
4	10,000	2 X 630	130
5	15,000	4 X 630	160
6	20,000	5 X 630	175
7	25,000	6 X 630	200
8	30,000	7 X 630	220

**Note:**

1. For additional 1000 Sq.m. covered area, a load of 90 KVA will come up with 150 KVA TR. Capacity at 60 % loading.
2. For additional of one transformer as per covered area, a space of additional 16 Sq.m. is to be provided.
3. In case of any deviation in space size due to unavoidable circumstance, the same may be considered with the approval of Electricity Board.
4. The floor of the sub-station shall have cable trenches of 0.6 m. depth, the layout for which will be given at the time of actual construction. For this purpose, a dummy floor of 0.6 m. depth shall be provided to facilitate cutting/digging of floor for installation of equipment's and making subsequent changes in trenches. This floor shall be capable to withstand minimum load of 10 ton of each transformer mounted on flour wheels.

The break-up spaces required for different installations in a sub-station are given as below:

1. Supply company's Switchgear room and or space of meters.
2. **Transformer Rooms:** The number and size of transformer rooms shall be ascertained from the total power requirements of the company. To determine the size of transformer and clearance around a transformer, reference may be made to good practice (I.S.1887-1967 code of practice for installation and maintenance of Transformer). A 500 KVA transformer may be provided with a minimum space of 4 m. X 4 m.

If transformer is to be installed outdoor space shall be provided on similar considerations and adequate provision for safety enclosure is to be made. For transformer having large oil content (more than 2000 lt.) soak pits are to be provided in accordance with rule 64 of Indian Electricity Rules, 1956.

3. **High Voltage Switch Rooms:** In case of sub-station having one transformer, the owner is required to provide only one high voltage switch. In the case of single point supply for two transformers, the number of switches required is 3 and for 'n' transformers the number of switches is n+1. The floor area required in case of a single switch will be roughly 4mX1m and for every additional switch the length should be increased by 1m.
4. **Low Voltage Switch Rooms:** The floor area requirement in respect of low voltage switchgear room cannot be determined by any formula.
5. **Room for Stand-by-Generator:** A room space not less than 6 m. X 9 m. may be provided for housing a standby Generator set of 50 KW.

**Location of electric sub-station in basement of multistoried buildings:**

- 1 The electric sub-station should be provided in the approved/sanctioned covered area of the buildings not below the first basement level and should be on the

periphery of the building with clear independent round the clock approach having proper ramp with slope.

The ramp should be designed in such a manner that in case of fire no smoke should enter the main buildings. The exit from basement electric sub-station shall have self-closing fire/smoke check doors of 2 hours. F.R. near entry to ramp. Additional exit shall be provided if traveled distance from the farthest corner of the ramp is more than 15m.

2. The electric sub-station should be totally segregated from rest of the basement having 4 hours. F.R. wall and should have adequate internal lighting and ventilation. A perfect independent ventilation system of 30 air charges per hour linked with detection as well as automatic medium velocity water spray system for individual transformer shall be located outside the building at ground floor, fire control room shall be manned round the clock and shall also have and audio system in the basement as well as in the control room. No service such as water, sewer, air-conditioning, gas pipes or telegraphs services should pass through electric substation of the cable trench.
3. The rising mains should be of metal bus bars. The floor of electric substation should be 2 ft above the rest of basement floor and designed suitably to carry 10 tons of transformer weight on wheels also having provision of proper cable trenches 0.6 X 0.6 m. depth. Dummy floor of 0.6 m. depth be provided to facilitate laying of cables inside the building connecting to equipment. Fire retarding cables should be provided and cable trenches be filed with said cables. R.C.C. pipes at suitably places as required will be provided for cable entries to the sub-station spaces with suitable water proofing arrangement. A provision of 12 ft. clear height below Beams should be made in the electric sub-station area along with adequate arrangement for fixing chain pulley block for a load of 15 tons. Provision of sumps shall be kept in the floor so that complete volume of transformer oil in the event of spillover could be accommodated. Sufficient arrangement to prevent spread of fire to oil pumps is made.
4. Transformers room and sub-station room shall be provided with steel shutters of 8' X 8' with suitable grills. Sufficient arrangement for pumping the water out, in case of flooding should be made to minimize loss to switchgear and transformer.
5. In view of experience of installation of exhaust chimneys in the multistoried buildings at undesirable locations, proper provision in the form of vertical exhaust leading to above terrace level should be made for the substation.
6. Electric sub-station space should be made available free of cost by promoters and should be free of seepage/leakage of water. There should be no combustible material kept in side or in the vicinity. Periodic inspection of electric sub-station shall be mandatory and violation of any bye-law will be dealt, sternly with penalty and immediate disconnection.

#### **Other Requirements for Sub-station**

1. The sub-station will preferably be located on the ground level failing which it can be in the basement floor in no case at higher level.
2. The entire space will be provided at one floor in continuation.
3. The minimum width of the sub-station space shall not be less than 6 m.
4. The areas given above in respect of the different categories of rooms hold good if they are provided with windows and independent access doors.
5. All the rooms should be provided with partition up to the Ceilings and shall have proper ventilation. Special care should be taken to ventilate the transformer rooms and where necessary, louvers at lower levels and exhaust fans at higher level shall be provided at suitable locations.
6. In order to prevent storm water entering the transformer and switch rooms through the soak pits, the floor level of the sub-station shall be at least 15 cm above the highest flood water level that may be anticipated in the locality.

#### **Cable Trenches Shafts Etc.**

1. Suitable number of vertical shafts, rising mains, distribution boxes, etc. shall also be provided as per the requirements at suitable location. Cable trenches with suitable handy covers for entry of the cables up to the substation onwards up to the street adjoining other building shall also be provided as per the requirements.

These vertical shafts, rising mains, distribution boxes, cable trenches, etc. shall be so constructed as to be accessible only to authorized personnel. The rising mains and other installations in the vertical shafts, tap off boxes distribution boxes etc. required at each floor shall be provided, installed and maintained by the owner at their own cost. Adequate enclosed space shall also be provided at

each floor for installation of equipment's for distribution on respective floors such as distribution boxes, cut-out, and meter boxes and main switches.

**2 Location of Switch Room:** In large installations other than where a substation is provided, a separate switch room shall be provided. This shall be located as closely possible to the electrical load center and suitable ducts shall be laid with minimum number of bends from the point of entry of the supply to the position of the main switchgear. The switch room shall also be placed in such a position that rising ducts may readily be provided there from to the upper floors of the building in one straight vertical run. In larger building, more than one rising duct and horizontal ducts may also be required for running cables from the switch room to the foot of each rising main. Such cable ducts shall be reserved for the electrical services only, which may, however, include medium and low voltage installations, such as call bell systems. Telephone installation should be suitably segregated.

**3 Location and Requirement of Distribution Panels:** The electrical gear distribution panels and other apparatus, which are required on such floor, may conveniently be mounted adjacent to the rising mains, and adequate space should be provided at each floor for this purpose.

**4 Location and Requirement of PBX/PABX Room:** Information regarding provision and location of PBX/PABX room, telephone outlets and riser shall be ascertained form the relevant Authority.

*Adequate space should be provided for installation of Sub-Distribution Board.*

### ***GENERAL***

The maintenance of the built up space for electric sub-station, distribution equipment, vertical shafts and enclosure at each floor shall be done by the owner. The standby arrangement for electricity supply up to and including the substation equipment and distribution pillars at the sub-station shall be provided compulsorily.

## **APPENDIX-XIV**

### **PROVISION FOR DIFFERENTLY ABLED**

#### **1. Definitions**

**Ambulant Disabled People:** Disabled who are able to walk but who may depend on prostheses (Artificial Limbs) or those (Calipers), Sticks, crutches or walking aids.

**Non-Ambulant Disabled People:** Disabled people with impairments that confine them to wheelchair.

**Wheel Chair:** Chair used by disabled people for mobility.

- i) Size of small wheel chair: 750 x 1050 mm
- ii) Size of large wheel chair: 800 x 1500 mm

#### **2. Scope**

These bye-laws are applicable to public buildings and exclude domestic buildings.

Building which shall provide access to ambulant disable and Non-Ambulant disabled are listed below. Distinction is made for buildings to be designed for the use of large wheel chairs and small wheel chair.

3. Building to be designed for Ambulant Disabled People Higher Secondary School, Conference Hall, Dance Halls, Youth Centers, Youth Clubs, Sport Centers, Sport Pavilions, Boat Club Houses, Ice Rinks, Bowling Centers, Swimming Pools, Police Stations, Law Courts, Courts Houses, Sport Stadiums, Theatres, Concert Halls, Cinemas, Auditoria's, Small Offices (the maximum plinth area 1400 sq.mt) Snack Bars, Cafes and banqueting rooms (for capacity above 50 dinners).

**Note:**

- i) In sport stadiums provisions shall be made for non-ambulant spectators (small wheel chair)
- ii) @ 1:1000 up to 10,000 spectators and @ 1:2000 for spectators above 10,000.
- iii) In Theatres, Concert Halls, Cinemas and Auditoria provisions shall be made for non-ambulant spectators (Small Wheel Chairs) @ 1/250 up to 1000 spectators and 1/500 for spectators above 1000.

4. Building to be designed for Non-Ambulant Disabled People:

Schools for physically handicapped, cremation, buildings as mentioned in 3, Botanical Gardens, Religious Buildings, Old People Clubs, Village Halls, Day Centers, Junior Training Centers, Post Offices, Banks, Dispensaries, Railway Stations, Shops, Super Markets, and Departmental Stores.

**Notes:** Large wheel chair criteria shall be applicable on ground floors of the following building, post offices, banks, dispensaries, railway station, shops, supermarkets, and departmental stores.

5. Building to be designed for Non-Ambulant People (using small wheel chairs) Public lavatories in Tourist Sports, Clubs Motels, Professional and Scientific Institution, Museum,

Art Galleries, Public Libraries, Laboratories, Universities, Collage for further Education, Teachers Training Colleges, Technical College, Exhibition Halls Dentist Surgeries, Administrative Department of the Hospitals, Service Stations, Car Parking, Buildings Airports Terminals, Bus Terminals, Factories Employing Handicapped for Sedentary Works, Large Offices, (with plinth area abode 1400 sq.mt.), Tax Offices, Passport Offices, Pension Offices, and Labour Offices, Cafes, Banqueting Rooms and Snack Bars (For capacity above 100 dinners).

#### 6. Buildings Requirements:

All Building requirements for building projects proposed under this category shall be conforming to Annex D, Part 3 of NBC 2005.

### **APPENDIX-XV**

#### **ACCREDITATION OF ENVIRONMENTAL AUDITORS (QUALIFIED BUILDING AUDITORS)**

The Ministry of Environment, Forest and Climate Change (MoEFCC), through qualified agencies shall accredit the Qualified Building Environment Auditors (QBEAs). The Qualified Building Environment Auditors could be a firm /organization or an individual expert, who fulfils the requirements. The Ministry will implement this process of accreditation through Quality Council of India (QCI), National Productivity Council or any other organization identified by the Government. The organizations like Indian Green Building Council, Bureau of Energy Efficiency etc. can also be associated in the process of accreditation, training, and renewal. The environmental consultants accredited by the QCI for building sector will be qualified as QBEAs. The QBEAs will meet the following criteria. The accrediting agency can improvise on these criteria.

##### **Qualifications of the Auditor:**

- a. Education: Architect (Degree or Diploma), Town Planners (Degree), Civil Engineer / Mechanical Engineer (Degree or Diploma), PG in Environmental Science or any other qualification as per the scheme of the accreditation.

##### **Training:**

- b. Mandatory training to be given by the accreditation body or their approved training providers. This will be as per the scheme of the accreditation.

##### **Experience:**

- c. At least 3 years of work experience in the related field or building sector Environment Impact Assessment consultants accredited by QCI or any other experience criteria as per the scheme of the accreditation.

##### **Infrastructure and equipment:**

- d. As per the scheme of the accreditation

##### **Renewal:**

- e. The accreditation will be valid for 5 years and will be renewed as per the process developed under the accreditation scheme.

Accountability/Complaint redressal mechanism: Any complaints regarding the quality of the work of QBEAs shall be made to the accreditation body. The accreditation body shall evaluate the complaint and take appropriate action including black listing or cancellation of the accreditation with wide public notice. This will be in addition to the action at the level of local authority for penalty and blacklisting. The Ministry can also take such action in case of specific complaint or feedback.

### **APPENDIX-XVI**

#### **ENVIRONMENTAL CELL AT THE LEVEL OF LOCAL AUTHORITY**

An Environmental Cell shall be setup at the local authority level to support compliance and monitoring of environmental conditions in buildings. The Cell shall also provide assistance in environmental planning and capacity building within their jurisdiction. The responsibility of this cell would be monitoring the implementation of this notification and providing an oversight to the Third-Party Auditing process. The cell will operate under the local authority.

##### **Constitution of the cell:**

The cell will comprise of at least 3 dedicated experts in following fields:

- a. Waste management (solid and liquid)
- b. Water conservation and management
- c. Resource efficiency including Building materials
- a. Energy Efficiency and renewable energy

- e. Environmental planning including air quality management.
- f. Transport planning and management.

The Cell shall induct at least two outside experts as per the requirements and background of dedicated experts. Existing environmental cells at the level of local authority can be co-opted and trained for this Cell.

#### **Financial Support:**

An additional fee may be charged along with processing fee for building License for integrating environmental conditions and it's monitoring. The local authority can fix and revise this additional fee from time to time. The amount of this fee shall be deposited in a separate bank account, and used for meeting the requirement of salary / emoluments of experts and running the system of online application, verifications and the Environmental Cell.

#### **Functions of the Cell:**

1. The cell shall be responsible for assessing and appraising the environmental concerns of the area under their jurisdiction where building activities are proposed. The Cell can evolve and propose additional environmental conditions as per requirements. These conditions may be area specific and shall be notified in advance from time to time. These additional conditions shall be approved following a due consultation process. These environmental conditions will be integrated in building Licenses by the sanctioning authority.
2. Develop and maintain an online system for application and payment of fees. The Cell shall maintain an online database of all applications received, projects approved, the compliance audit report, random inspections made. The Cell shall maintain a portal for public disclosure of project details including self-certification and compliance audit reports filed by the Qualified Building Environment Auditors for public scrutiny of compliance of environmental conditions by the project.
3. Monitoring the work of Environmental Audit process carried by the Qualified Building Auditors.
4. The Cell shall review the applications; finalize the additional environmental conditions if required within 30 days of the submission of the application to the local authority.
5. The Cell shall adopt risk based random selection of projects for verifying on site for certification of QBA, compliance of environmental conditions and five yearly audit report.
6. The Cell shall recommend to the local authority for financial penalty for non-compliance of environmental conditions by the project proponent.
7. The Cell shall recommend to the accrediting body and the local authority against any Qualified Building Environment Auditor, if any lapse is found in their work.

#### **APPENDIX-XVII**

#### **CATEGORIES OF MATERIALS OF STORAGE OF WAREHOUSE AS PER COMBUSTION RISK.**

##### **A. Non-combustible materials:**

Articles (which are Non- Combustible, Non -Flammable, Non -Corrosive, Non -toxic, Non-poisonous, Non-Explosive) such as Cement, brick, mortar, hardware items, metals in solid bar/metal goods (excluding those having melting point below 1000 ° C)

##### **B. Combustible Materials in following 4 sub categories**

<b>Category</b>	<b>Material Specifications</b>	<b>Stacking Height</b>	
		<b>Medium (in m)</b>	<b>High (in m)</b>
<b>Category I</b>	Articles such as Carpets, Non synthetic/synthetic yarn and fabrics. Mechanical and electrical goods (dominantly metal parts), Glassware and crockery, fibreboards, groceries, metal goods, Papers other than those listed under categories Moderate and High, Powdered and canned foods, Plastic/glass bottles containing non-flammable liquids, etc.	<b>4</b>	<b>6.5</b>
<b>Category II</b>	Articles such as Batteries, Baled cotton/synthetic fibers, Books, Baled cork, Baled waste paper, Cartons containing alcohols ( in cans/bottles), Cartons of canned lacquers which dry by solvent evaporation, Chipboard, Cardboard rolls (horizontally Stored), Cereals/Grains/Foodstuff/ Flour/Sugar in sacks, Cellulose/Cellulose pulp, Electrical goods other than those stated in Category low, Flammable liquids in non-combustible containers, Leather goods, Palletized liquor	<b>3</b>	<b>5.5</b>

	stocks, Plastics (non-foamed, other than cellulose nitrate), Rolled pulp and paper and asphalted paper (Horizontal storage), Veneer sheets, Wooden patterns, Metal/wooden furniture with plastic seats, etc.		
<b>Category III</b>	Articles such as Bitumen/Wax coated paper, Candles, Carbon black, Card board rolls (vertically stored), Charcoal, Coal > cellulose nitrate, Foamed plastic and foam rubber products, Flammable liquids in combustible containers, Linoleum products, Matches, Plastics other than those stated in Category Moderate, Rolled pulp and paper and asphalted paper (vertical storage), Rubber goods including tyres and tubes, Sawn timber, Ventilated wood stacks, Waxed and asphalt coated papers and containers in cartons, Wood wool, wooden pallets and flats (idle), All materials having wrappings or pre-formed containers of foamed plastics, etc.	<b>2</b>	<b>4.5</b>
<b>Category IV</b>	Off cuts and random pieces of foamed plastic or rubber rolls of sheets of foamed plastic or foamed rubber, Foam mattress, Expanded polystyrene packaging, Foam upholstery, etc.	<b>1.25</b>	<b>3.5</b>

**Explanations:**

# The deflector of the sprinkler fitted in the ceiling shall be at more than 1.5 m from the goods stored below. However, in case of jute storage, no jute stock shall reach within 2 m of the deflectors of the sprinkler heads.	Goods stored not higher than what is stated above for the appropriate category or not higher than the eaves height of the roofs or within 1 m of a flat ceiling whichever is the lowest shall be regarded as moderate hazard storage. If the above conditions are not met, the risk shall be regarded as high hazard storage
# In case of storage in racks or shelves, if the height of storage is more than what is specified, intermediate sprinklers shall be provided for each shelf/rack in addition to the ceiling sprinklers and overall design density and AMAO shall be maintained as per Table 5 of IS: 15105.	
# The aisle width between the storage stacks shall not be less than 2.5 m and the maximum area of each storage stack shall not be more than 15.0..m <sup>2</sup> . If these parameters are exceeded, the design density applicable shall be loaded by 2.5 L/min/m <sup>2</sup> .	
# In case of mixed storage (both moderate and high hazard storage) in buildings, the parameters will be governed by the most hazardous occupancy	

**Notes:**

1. Any new use which increase the number of occupants to a figure comparable with other classes of occupancy shall change the classification of the building to that of the new use (for example, Warehouse used \ for office purposes).
2. Ware house buildings shall not include any article which is highly combustible or explosive materials or products which are liable to bum with extreme rapidity and or which may produce poisonous fumes or explosions for storage, handling and which involve highly corrosive, toxic or noxious alkalis, acids or other liquids or chemicals producing flame, fumes and explosive, poisonous, irritant or corrosive gases; and for the storage, handling of any material producing explosive mixtures of dust which result in the division of matter in to fine particles subject to spontaneous ignition as such buildings fall in Hazardous Building Category.

**FORMS****FORM-I****DETAILS TO BE CONTAINED AND TO BE ATTACHED TO THE APPLICATION FORM FOR BUILDING LICENCE.**

1. Name and address of the Applicant;
2. Identification proof of the Applicant;
3. Whether the Applicant is the owner of the plot or GPA holder or Promoter, representing the Owner;
4. Survey No., Village, Taluk and District of the plot and other description of plot;
5. Type of Building licence required (for new construction, addition / alteration, revises licence);
6. Documents enclosed with the Application;
7. Drawings or Details enclosed with the Application;
8. Details of Professionals on Record to prepare the drawings;
9. Details of Professionals on Record to supervise the works (compulsory in case B3, B4 and B5 types of buildings)
10. Affidavit and indemnity for basement floor construction
11. Specifications of the building enclosed with the application (in the format notified by the government)
12. Affidavit of applicant and professionals on record for drawings and supervision enclosed with the application (in the format notified by the government)

**FORM-II****DETAILS TO BE CONTAINED AND TO BE ATTACHED TO THE APPLICATION FOR NOCS FROM DIFFERENT DEPARTMENTS, IN ADDITION TO THE DETAILS REQUIRED FOR BUILDING LICENCE (as specified by the concerned department).**

- IIa. From Department of Fire and Emergency Services**
- IIb. From MOEF and KSPCB**
- IIc. From Airport Authority of India**
- IId. From Coastal Regulation Zone Authority**
- IIe. From Karnataka State Water Supply & Drainage Board**
- IIf. From Indian Railways**
- IIg. From Metro rail corporation**
- IIh. From Heritage conservation committee**
- IIi. From National Monuments Authority**
- IIj. From Urban Arts Commission**

**FORM-III****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE DOCUMENTS SUBMITTED**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Document having discrepancy;
4. Details of discrepancy; and
5. Details of rectification proposed, if any

**FORM-IV****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE PLANS AND DETAILS SUBMITTED FOR SANCTION OF BUILDING LICENCE**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Drawings having discrepancy (specify for each drawing separately);
4. Details of discrepancy in drawings (specify for each drawing separately);
5. Details of discrepancy in the conditions for obtaining NOCs from other departments; and
6. Details of rectification proposed, if any;

**FORM-V****DETAILS TO BE CONTAINED IN THE INTIMATION LETTER OF THE AUTHORITY TO EMPANELLED PROFESSIONAL FOR SITE INSPECTION AND SUBMISSION OF SITE INSPECTION REPORT FOR APPROVAL OF SITE PLAN**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for preparing drawing;
4. Details of the building site in which building licence is applied for;
5. Copies of the relevant documents;
6. Details of the site plan and other technical drawings & details submitted;

**FORM-VI****DETAILS TO BE CONTAINED IN THE SITE INSPECTION REPORT**

1. Name and the address of the Applicant;
2. Name and the address of the professional on record for drawings;
3. Name and the address of the Empanelled professional or designated officer ;

4. Particulars of the Plot;
5. Date of inspection;
6. Noting of site inspection;
7. Acknowledgement of applicant and professional on record
8. Date of submission of report;

**FORM-VII**

**DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE SITE INSPECTION REPORT**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for preparing drawing;
4. Name and address of the empanelled professional who has submitted the inspection report;
5. Drawings having discrepancy (specify for each drawing separately);
6. Details of discrepancy in drawings (specify for each drawing separately);
7. Details of rectification proposed, if any;

**FORM-VIII**

**DETAILS TO BE CONTAINED IN THE BUILDING LICENCE**

1. Name and address of ULB with logo
2. Type of building licence
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,)
10. NOCs received
11. Various fees paid
12. Licence validity period
13. Other Terms and conditions of licence
14. Seal and signature of CEO

**FORM-IX****DETAILS TO BE DISPLAYED OUTSIDE THE CONSTRUCTION SITE.**

1. Name and address of the Applicant;
2. Details of the building licence (extent of site, existing and proposed width of roads abutting the road and name of roads as per the records of the Authority, no. of building blocks and for each block – no. of floors, all-round setbacks, no. of basement floors, total floor area eligible and proposed – permissible, premium and TDR, no. of 4-wheeler and 2 wheeler parking required and provided, including visitors parking – within the building and outside the building, both covered and open)
3. Details of Professionals on Record to prepare the drawings;
4. Details of Professionals on Record to supervise the works;
5. Site plan
6. 3D view of the building (if proposed in any advertisement of the promoter)

**FORM-X****DETAILS TO BE CONTAINED IN THE SITE INSPECTION REPORT OF EMPANELLED PROFESSIONAL, CERTIFYING THE WORKS OR STATING THE DEFECTS / DEVIATIONS IN WORKS EXECUTED AT SITE.**

1. Name and address of the Applicant.
2. Name and address of the professional on record for supervision
3. Name and address of contractor executing work
4. Name and address of empanelled professional
5. Name and address of the Authority
6. Particulars of the Plot
7. Noting of site inspection (stating the defects / deviations in works executed, from the approved plans, specifying the related drawing)
8. Acknowledgement of applicant and professional on record
9. Date of inspection
10. Date of submission of report

**FORM-XI****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT TO RECTIFY THE DEFECTS IN WORKS EXECUTED.**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for supervision;
4. Name and address of the empanelled professional who has submitted the inspection report;

5. Works having defects / deviations from approved drawings (specify for each drawing separately);
6. Details of discrepancy in works executed (specify for each drawing separately);
7. Details of rectification proposed, if any;

**FORM-XII**

**DETAILS TO BE CONTAINED IN INSPECTION REPORT OF CEO REGARDING OBJECTIONS RAISED BY THE APPLICANT AGAINST THE INSPECTION REPORT OF EMPANELLED PROFESSIONAL OR DEPARTMENT ISSUING NOCs.**

1. Name and address of the Applicant.
2. Name and address of the professional on record for supervision
3. Name and address of contractor executing work
4. Name and address of empanelled professional
5. Name and address of the Authority
6. Name and address of the Department which issued NOC (if objection is raised against such department)
7. Particulars of the Plot
8. Noting of site inspection (stating the changes to be made by the applicant in works executed, if applicable, or certifying the works executed)
9. Acknowledgement of applicant, professional on record and designated officer of the department (if applicable)
10. Date of inspection
11. Date of submission of report

**FORM-XIII**

**DETAILS TO BE CONTAINED IN COMPLETION CERTIFICATE ISSUED BY THE PRINCIPAL PROFESSIONAL ON RECORD, SUPERVISING THE WORKS.**

1. Name and address of ULB with logo
2. Type of building licence issued
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,) as built in site
10. Details of certification by empanelled professional
11. Signature of Professional on record for supervision

**FORM-XIV****DETAILS TO BE CONTAINED IN THE OCCUPATION CERTIFICATE.**

1. Name and address of ULB with logo
2. Type of building licence issued
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,)
10. Approvals received from other departments which issued NOCs
11. Details of completion certificate
12. Details of certification by empanelled professional
13. Other Terms and conditions of occupation
14. Date and no. of occupation certificate
15. Seal and signature of CEO

**FORM-XV****CERTIFICATE OF STRUCTURAL DESIGN & SAFETY**

1. Name and the address of the Applicant;
2. Particulars of the Plot;
3. Building license sanctioned date;
4. Date of inspection;
5. A statement, stating that certifying that the building is structurally safe and the construction is in accordance with the specified designs

**FORM-XVI****CERTIFICATE OF QUALITY CONTROL**

1. Name and the address of the Applicant;
2. Particulars of the Plot;
3. Building license sanctioned date;
4. Date of inspection;
5. Written statement submitted Quality Auditor on Record (QAR) affirming that the building meets the standard specification.

By Order and in the name of the Governor of Karnataka

**NAGARAJ**  
Under Secretary to Government  
Urban Development Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಶನಿವಾರ, ೧೫ ಜುಲೈ, ೨೦೧೭ (ಅಷಾಡ ೨೪, ಶಕ ವರ್ಷ ೧೯೩೯)

ಬಾಗ-IVA | Part-IVA | No. ೬೮೮

## URBAN DEVELOPMENT SECRETARIAT

### NOTIFICATION-II

No. UDD 14 TTP 2017(P-3), Bengaluru, Date: 11.07.2017

The draft of the **Karnataka Municipal Corporations Common Building Bye-Laws 2017** which the Government of Karnataka proposes to make in exercise of the powers conferred by clause (b) of sub-section (1) of section 508 read with section 428 of the Karnataka Municipal Corporations Act, 1976 (Karnataka Act 14 of 1977) is hereby published as required by sub-section (1) of section 428 and sub-section (1) of section 508 of the said Act, for the information of all the persons likely to be affected thereby and notice is hereby given that the said draft will be taken into consideration after one month from the date of its publication in the Official Gazette.

Any objection or suggestion which may be received by the State Government from any person with respect to the said draft before the expiry of the period specified above will be considered by the State Government. Objections and suggestions may be addressed to the Director, Town and Country Planning Department, M.S. Building, Gate-04, Bengaluru-560001.

### DRAFT COMMON BUILDING BYE LAWS

#### 1. TITLE, COMMENCEMENT AND APPLICATION.

#### 2. DEFINITIONS

1. 'Access'
2. 'Act'
3. 'Addition and/or Alteration'
4. 'Agriculture'
5. 'Air-conditioning'
6. 'Amalgamation'
7. 'Amenity'
8. 'Annexure'
9. 'Apartment'
10. 'Apartment Building' / 'Group Housing'
11. 'Appendix'
12. 'Application'
13. 'Applicant'
14. 'Approved'
15. 'Architect'
16. 'Architect/Professional on record'
17. 'Auditorium'
18. 'Authority'
19. 'Balcony'

- 20. 'Basement Storey or Cellar'
- 21. 'Bifurcation'
- 22. 'Building'
- 23. 'Building Line'
- 24. 'Building Site'
- 25. 'Bus Depot'
- 26. 'Bus Terminal'
- 27. 'Canopy'
- 28. 'Carpet Area'
- 29. 'Chajja'
- 30. 'Chimney'
- 31. 'Common wall'
- 32. 'Community Hall'
- 33. 'Construction'
- 34. 'Conversion of Occupancy'
- 35. 'Corner plot'
- 36. 'Corridor'
- 37. 'Cornice'
- 38. 'Courtyard'
- 39. 'Cultural buildings'
- 40. 'Damp Proof Course'
- 41. 'Density of Households'
- 42. 'Density of Population'
- 43. 'Development'
- 44. 'DR/T.D.R.'
- 45. 'Drains'
- 46. 'Drainage system'
- 47. 'Duplex'
- 48. 'Dwelling'
- 49. 'Empanelled Professional'
- 50. 'Encroachment'
- 51. 'Existing development'
- 52. 'Existing Use'
- 53. 'Exit'
- 54. 'External Wall'
- 55. 'First floor'
- 56. 'Flatted factory'
- 57. 'Floor'
- 58. 'Floor Area Ratio (FAR)'
- 59. 'Fire and/or Emergency Alarm System'
- 60. 'Fire Hazard Industries'
- 61. 'Fire Lift'
- 62. 'Fire Proof Door'
- 63. 'Fire Pump'
- 64. 'Fire Pump-Booster Fire Pump'
- 65. 'Fire Resistance'
- 66. 'Fire Resistance Rating'
- 67. 'Fire Separation'
- 68. 'Fire Service Inlet'
- 69. 'Fire Tower'
- 70. 'Fire Resisting Building'
- 71. 'Footing'
- 72. 'Form'
- 73. 'Foundation'
- 74. 'Frontage'
- 75. 'Gallery'
- 76. 'Garage-Private'
- 77. 'Garage-Public'
- 78. 'Gas Godown'
- 79. 'Government'
- 80. 'Ground floor'
- 81. 'Ground Coverage'

- 82. 'Habitable Room'
- 83. 'Head Room'
- 84. 'Heritage building'
- 85. 'Heritage Precinct'
- 86. 'High-rise Building'
- 87. 'Height of Building'
- 88. 'Hospital'
- 89. 'Hotel'
- 90. 'Illuminated Exit Signs'
- 91. 'Land use'
- 92. 'Licence'
- 93. 'Licensed Professional'
- 94. 'Lift'
- 95. 'Lobby'
- 96. 'Lodging House'
- 97. 'Loft'
- 98. 'Market value'
- 99. 'Master Plan'
- 100. 'Means of Escape'
- 101. 'Mezzanine Floor'
- 102. 'Multilevel Car Parking (MLCP)'
- 103. 'Multiplex complex'
- 104. 'MCB/ELCB'
- 105. 'Non-Combustible Material'
- 106. 'Nursing home'
- 107. 'Occupancy or use'
- 108. 'Open space in a plot'
- 109. 'Owner'
- 110. 'Parapet'
- 111. 'Parking space'
- 112. 'Partition'
- 113. 'Partition Wall'
- 114. 'Plinth'
- 115. 'Plinth Area'
- 116. 'Plinth level'
- 117. 'Plot' / 'Site'
- 118. 'Porch or portico'
- 119. 'Premium F.A.R.'
- 120. 'Prohibited area'
- 121. 'Promoter'
- 122. 'Protected monument'
- 123. 'Public and semi-public building'
- 124. 'Pump Room'
- 125. 'Recreational Club'
- 126. 'Regulated area'
- 127. 'Repair Shop'
- 128. 'Restaurant'
- 129. 'Retail Shop'
- 130. 'Retention Activity'
- 131. 'Road/Street'
- 132. 'Road/Street Level or Grade'
- 133. 'Road/Street Line'
- 134. 'Road Width or Width of Road/Street'
- 135. 'Room Height'
- 136. 'Service Apartments'
- 137. 'Service Road'
- 138. 'Setback'
- 139. 'Set-back Line'
- 140. 'Site Plan'
- 141. 'Spiral Staircase'
- 142. 'Staircase room'
- 143. 'Stair Cover'

- 144. 'Stilt floor'
- 145. 'Storey'
- 146. 'To Erect'
- 147. 'Un-authorised Development'
- 148. 'Underground/Overhead Tank'
- 149. 'Utility Area'
- 150. 'Ventilation'
- 151. 'Water Closet (W.C.)'
- 152. 'Window'
- 153. 'Zonal Regulations'

### **3. JURISDICTION / APPLICABILITY AND PROCEDURAL REQUIREMENTS FOR OBTAINING BUILDING LICENCE**

- 3.1 Jurisdiction of Building Bye-Laws
- 3.2 Applicability of Building Bye Laws
- 3.3 Applicability of Bye-Laws for all types of building developments
- 3.4 Applicability of Bye-Laws for Part construction
- 3.5 Change of use / occupancy
- 3.6 Requirement in respect of building sites
  - 3.6.1 Damp sites
  - 3.6.2 Minimum Size of sites
  - 3.6.3 Sanction for building site
  - 3.6.4 Restrictions on use of land for construction of buildings
- 3.7 Reconstruction
- 3.8 Existing approved building
- 3.9 Development of Buildings
  - 3.9.1 Building Licence:
  - 3.9.2 Building Licence obtained before these bye-laws:
  - 3.10 Procedure for obtaining building licence
    - 3.10.1 Registration of Stake Holders
    - 3.10.2 Application for building plan approval
    - 3.10.3 Verification of documents submitted
    - 3.10.4 Evaluation of Technical details submitted
    - 3.10.5 Forwarding details to obtain NOCs and issuing NOCs
    - 3.10.6 Submission of Site Inspection Report
    - 3.10.7 Action in case of discrepancy in site inspection report.
    - 3.10.8 Sanctioning of Building License
  - 3.11 Plans for Sanction
    - 3.11.1 Key Plan:
    - 3.11.2 Site Plan
    - 3.11.3 Floor Plan of parking areas
    - 3.11.4 Floor Plans of other uses
    - 3.11.5 Sections of buildings
    - 3.11.6 Elevations of buildings
    - 3.11.7 Drawings for all services provided
    - 3.11.8 Landscape plan
    - 3.11.9 Circulation Plan indicating vehicular and pedestrian movement and parking facilities including traffic impact study and report
  - 3.11.10 Structural Drawings and details
  - 3.11.11 Green Building drawings and details
- 3.12 Signing of plans
  - 3.12.1 Signing the Building Plans
  - 3.12.2 Signing of plans for NOC
- 3.13 Alteration / Modification / Addition in Plans
  - 3.13.1 Alterations exempted from obtaining building licence
- 3.14 Fees for sanction of Building licence
- 3.15 Sanction
  - 3.15.1 Sanction by the Authority
  - 3.15.2 Sanction by Empanelled Professionals
  - 3.15.3 Grant of Licence or Refusal
  - 3.15.4 Duration of Sanction, Revalidation and revised Sanction

- 3.15.5 Revocation of Licence
- 3.15.6 Qualification and Competence
- 3.16 Execution of works at site
  - 3.16.1 Construction to be in Conformity with Bye-Laws
  - 3.16.2 Commencement of work
  - 3.16.3 Appointment of professionals on record for supervision
  - 3.16.4 Intimation of commencement of work at site
  - 3.16.5 Documents at Site
  - 3.16.6 Preparatory works at site that need not be intimated
  - 3.16.7 Procedure during construction
  - 3.16.8 Inability of Empanelled professional to certify the works and selection of alternate professional
  - 3.16.9 Action against works executed without intimation and works not rectified
  - 3.16.10 Changes to be made in the approved plans, during the execution of works
- 3.17 Completion of project and issuing Completion Certificate:
  - 3.17.1 Issuing completion certificate
  - 3.17.2 Application for approval of works from other departments
- 3.18 Occupancy Certificate
  - 3.18.1 Occupancy or letting of the new buildings
  - 3.18.2 Occupancy/ Part Occupancy Certificate for Phased Project
- 3.19 Connection to the municipal sewer / water mains

#### **4. DEVELOPMENT REGULATIONS**

#### **5. GENERAL BUILDING REQUIREMENTS AND SERVICES**

- 5.1 Requirements for Parts of Buildings
  - 5.1.1 Plinth
  - 5.1.2 Habitable Rooms
    - 5.1.2.1 Height
    - 5.1.2.2
    - 5.1.2.3 Size
    - 5.1.3 Kitchen
      - 5.1.3.1 Height
      - 5.1.3.2 Size
    - 5.1.3.3 Other Requirements
  - 5.1.4 Bathrooms and Water-Closets
    - 5.1.4.1 Height
    - 5.1.4.2 Size
    - 5.1.4.3 Other Requirements
    - 5.1.4.4
    - 5.1.5 Loft
      - 5.1.5.1 Height
      - 5.1.5.2 Size
    - 5.1.6 Mezzanine Floor
      - 5.1.6.1 Height
      - 5.1.6.2 Size
    - 5.1.6.3 Other Requirements
    - 5.1.7 Store Room
      - 5.1.7.1 Height
      - 5.1.7.2 Size
    - 5.1.8 Garage
      - 5.1.8.1 Height
      - 5.1.8.2 Size
    - 5.1.9 Basement
      - 5.1.9.1.
      - 5.1.9.2.
    - 5.1.10 Chimneys
    - 5.1.11 Parapet
    - 5.1.12 Boundary Wall
    - 5.1.13 Septic Tanks
    - 5.1.14 Office-cum-Letter Box Room.

- 5.1.15 Meter Rooms
- 5.1.16 Roofs
- 5.2 Other general requirements
  - 5.2.1 Swimming Pool
  - 5.2.2 Means of access
  - 5.2.3 Staircase Requirements
    - 5.2.3.1.
    - 5.2.3.2 Minimum width
    - 5.2.3.3 Minimum tread
    - 5.2.3.4 Maximum riser
    - 5.2.4 Exit Requirements
      - 5.2.4.1 Occupant Load
      - 5.2.4.2 Number and size of Exits
      - 5.2.4.3 Arrangement of Exits
      - 5.2.4.4 Capacity of Exits
      - 5.2.4.5 Minimum Width Provisions for Passageway/Corridors
    - 5.2.5 Ramps
    - 5.2.6 Doorways
  - 5.2.7 Provision of exterior open spaces and height limitation around the building
  - 5.2.8 Interior Open Space for Light and Ventilation
    - 5.2.8.1.
    - 5.2.8.2 Sunken Courtyard
    - 5.2.8.3 Skylight
    - 5.2.9 Lighting and ventilation of rooms
      - 5.2.9.1 IS codes for lighting & ventilation requirements
      - 5.2.9.1.1 Minimum aggregate area of openings
      - 5.2.9.2 Ventilation Shaft
  - 5.3 Building Services
    - 5.3.1 Electrical, Air conditioning, Lift & Escalator installations
      - 5.3.1.1 Planning, design and installations of electrical, air-conditioning and lift installations
      - 5.3.1.2 Number and types of lifts
      - 5.3.1.3 Requirements of electrical sub -station
    - 5.3.2 Plumbing and Sanitary Services
      - 5.3.2.1 Planning, design, construction and installation of water supply, drainage and sanitation and gas supply system
      - 5.3.2.2 Norms for differently-abled within segregated toilets:
      - 5.3.2.3 Water requirement and facilities:
      - 5.3.2.4 Construction Site
      - 5.3.2.5 Temporary Camp Toilets
      - 5.3.2.6 Special / Contingency Toilets
      - 5.3.2.7 General guidance for water supply arrangements

## **6. PROVISIONS FOR HIGH RISE DEVELOPMENT**

- 6.1 General
- 6.2 Means of access
- 6.3 Parking Spaces
- 6.4 Building components
  - 6.4.1 Doorways
  - 6.4.2 Revolving Doors
  - 6.4.3 Stairways
  - 6.4.4 Lifts
  - 6.4.5 Basements
    - 6.4.5.1 General requirements
    - 6.4.5.2 Requirements for High rise development
  - 6.4.6 Compartmentation
  - 6.4.7 Ramps
  - 6.4.8 Corridors
  - 6.4.9 Glass Façade/ Service Ducts/Shafts/ Refuge Area/ Vents
- 6.5 Building Services
  - 6.5.1 Staircase and Corridor Lighting
  - 6.5.2 Electrical Services

- 6.5.3 Alternate Source of Electric Supply
- 6.5.4 Air-conditioning
- 6.5.5 Transformers
- 6.5.6 Gas supply
- 6.5.7 Boiler Room
- 6.5.8 Helipad
- 6.5.9 Disaster Management / Fire Safety
- 6.5.10 Sustainable Environment and Buildings
- 6.5.11 Structural Safety

## **7. PROVISIONS FOR STRUCTURAL SAFETY**

- 7.1 Structural design and safety
- 7.1.1 Additional provisions for natural hazard prone areas
- 7.1.2 Structural Design Basis Report (SDBR)
- 7.1.3 Seismic strengthening/retrofitting
- 7.1.4 Buildings with Soft Storey
- 7.1.5 Review of structural design
- 7.1.6 Certification regarding structural safety in design
- 7.1.7 Constructional safety
  - 7.1.7.1 Supervision
  - 7.1.7.2 Certification of structural safety in construction
- 7.1.8 Quality control and inspection
  - 7.1.8.1 Inspection
  - 7.1.8.2 Certification of safety in quality of construction
- 7.1.9 Control of signage & outdoor display structures, cell phone towers and telephone Towers.
- 7.2 Inspection
  - 7.2.1 Maintenance of Buildings
  - 7.2.2 Protective Measures in Natural Hazard Prone areas
  - 7.2.3 Registration of Professionals
  - 7.2.4 Professional fees for SER/SDAR and CER/CMAR
  - 7.2.5 Appointment of Professionals
- 7.3 Alternative Materials, Methods of Design and Construction and Tests

## **8. LAND USE ZONES**

## **9. PROVISIONS FOR DIFFERENTLY-ABLED, ELDERLY PERSONS AND CHILDREN**

- 9.1 Applicability
- 9.2 Guidelines and Provisions
- 9.3 Types of buildings to adopt barrier free guidelines as notified by the State Government
  - 9.3.1 Buildings to be designed for Ambulant Disabled People
  - 9.3.2 Buildings to be designed for Non-Ambulant Disabled People
  - 9.3.3 Buildings to be designed for Non-Ambulant People (using small wheel chairs)
  - 9.3.4 Site development
    - 9.3.4.1 Access Path / Walk Way
    - 9.3.4.2 Parking
  - 9.4 Building requirements
  - 9.4.1 Approach to plinth level
  - 9.4.2 Corridor connecting the entrance/ exit for the differently abled
  - 9.5 Stair-ways
  - 9.6 Lifts
  - 9.7 Toilets
    - 9.7.1 Provision of WCs in buildings without lift:
    - 9.7.2 Provisions of WCs in buildings with lift
    - 9.7.3 Toilet Details: For Toilets Designed for Ambulant Disabled
    - 9.7.4 For Toilets Designed for Non-Ambulant Disabled Small Wheel Chair:
    - 9.7.5 For Toilets Designed for Non-Ambulant Disabled Using Large Wheel Chair:
  - 9.8 Designing for Children
  - 9.9 Drinking Water:
  - 9.10 Refuge
  - 9.11 Proper signage
  - 9.12 Public Building regulations

## **10. RAIN WATER HARVESTING**

- 10.1 Rainwater Harvesting principle
- 10.2 Rainwater harvesting techniques:
- 10.3 Harvesting provisions in various Building categories:
- 10.4 Rain Water Harvesting Provisions for Open spaces in cities
- 10.5 Ground Water Recharge
- 10.6 Enforcement and Monitoring

## **11. GREEN BUILDINGS AND SUSTAINABILITY PROVISIONS**

- 11.1 Provisions and Applicability
- 11.2 Provisions for Sanction
- 11.2.1 Provisions for City and Site level greening
- 11.2.2 Water Re-use and Recycling
- 11.2.3 Roof Top Solar Energy Installations
- 11.2.4 Installation of Solar Assisted Water Heating System in Buildings
- 11.2.5 Sustainable Waste Management
- 11.2.6 Sustainability of Building Materials
- 11.3 Various Guidelines for Green Rating systems

## **12. FIRE PROTECTION AND FIRE SAFETY REQUIREMENTS**

- 12.1 Scope
- 12.2 Procedure for obtaining NOC and Clearance Certificate from DFES
- 12.3 Renewal of fire clearance
- 12.4 Fee
- 12.5 Responsibility of providing Fire Protection & Fire Fighting Measures
- 12.6 Terminology
- 12.7 General
  - 12.7.1 Fire Resistance of Types of Constructions / Building Components
  - 12.7.2 MEANS OF ACCESS
  - 12.7.3 EXIT REQUIREMENT
- 12.8 Fire Escapes or External Stairs:
  - 12.8.1 Spiral Stairs
  - 12.8.2 Staircase Enclosures
  - 12.8.3 Ramps
  - 12.9 Provision of lifts
  - 12.9.1 Lift Enclosure/lift
  - 12.9.2 Fire Lift
  - 12.10 Basement
  - 12.10.1 Requirements
  - 12.11 Provision of helipad
  - 12.12 Service ducts/refuge chute
  - 12.13 Electrical services
  - 12.14 Staircase and corridor lights
  - 12.15 Air-conditioning
    - 12.15.1 Air- Conditioning should conform to the following:
    - 12.15.2 Fire Dampers
  - 12.16 Boiler Room
  - 12.17 Alternate source of electric supply
  - 12.18 Safety measures in electric sub-station
  - 12.19 Fire protection requirements
    - 12.19.1 First Aid /Fixed Fire Fighting /Fire Detection Systems and other Facilities
    - 12.19.1.1 Note for Annexure 'B-I' 'B-II' & 'B-III'
    - 12.20 Static water storage tank
    - 12.21 Automatic sprinklers
    - 12.22 Fixed Carbon di-oxide /Foam/DCO water spray extinguishing system
    - 12.23 Fire alarm system
    - 12.24 Control Room
    - 12.25 Fire drills and fire orders
    - 12.26 Material used for construction of building

- 12.27 Liquefied Petroleum Gas (LPG)
- 12.28 House keeping
  - 12.28.1 Good House-Keeping includes the following
  - 12.28.2 Smoking Restrictions
  - 12.28.3 Limiting the Occupant Load in Parking and Other Areas of Basement(s)
- 12.29 Fire prevention
- 12.30 Occupancy restrictions

### **13. CONSERVATION OF HERITAGE SITES INCLUDING HERITAGE BUILDINGS, HERITAGE PRECINCTS AND NATURAL FEATURE AREAS**

- 13.1 Applicability:
- 13.2 Composition of heritage conservation committee:
- 13.3 Procedure for the preparation of list of heritage sites and buildings, heritage precincts listed natural features.
- 13.4 Criteria for listing of Heritage Sites:
- 13.5 Grading of the listed buildings / listed precincts
- 13.6 Restriction on development / re-development / repairs, etc.
- 13.7 Responsibility of the owners of heritage buildings:
- 13.8 Regulations for specified heritage precincts / listed natural features.
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## CHAPTER - 1

**1. Title, commencement and application-** (1) These bye laws may be called the Karnataka Municipal Corporations Model Building Bye-Laws 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

(3) All mandatory Master Plan or Zonal Regulations regarding use, land use, coverage, FAR, setback or open space, height, number of stories, number of dwelling units, parking standards etc. for various categories of buildings including modification therein made from time to time shall be applicable mutatis mutandis in these Bye-Laws under this clause. All amendments or modifications made in the aforesaid regulations shall automatically stand deemed to have been included as part of these Bye-laws.

## CHAPTER - 2

### **2. Definitions**

1. '**Access**' – means a clear approach to a plot or a building.
2. '**Act**'- means the Karnataka Municipal Corporations Act, 1975 (Karnataka Act 14 of 1977);.
3. '**Addition and/or Alteration**'- means a structural change including an addition to the area or change in height or the removal of part of building, or any change to the structure, such as the construction or removal or cutting of any wall or part of a wall, partition, column, beam, joist, floor including a mezzanine floor or other support, or a change to or closing of any required means of access ingress or egress or a change to fixtures or equipment as provided in these Bye laws.
4. '**Agriculture**' includes horticulture, farming, growing of crops, fruits, vegetables, flowers, grass, fodder, trees of any kind or any kind of cultivation of soil, breeding and keeping of livestock including cattle, horses, donkeys, mules, pigs, fish, poultry and bees, the use of land which is ancillary to the farming of land or any purpose aforesaid but shall not include

the use of any land attached to a building for the purpose of garden to be used along with such building; and 'agriculture' shall be construed accordingly.

5. **'Air-conditioning'**- The process of treating air so as to control simultaneously its temperature, humidity, purity, distribution and air movement and pressure to meet the requirements of the conditioned space.
6. **'Amalgamation'** means clubbing of two or more properties as a single property.
7. **'Amenity'** includes roads, street, open spaces, parks, recreational grounds, play grounds, gardens, water supply, electric supply, street lighting, sewerage, drainage, public works and other utilities, services and conveniences.
8. **'Annexure'** means the Annexure appended to these bye-laws;
9. **'Apartment'** means suite of rooms, which are occupied or which is intended or designed to be occupied by one family for living purpose in an Apartment building. This word is synonymous with residential flat.
10. **'Apartment Building/Group Housing'** means one or more buildings, each containing more than four Apartments.
11. **'Appendix'** means Appendix appended to these bye-laws;
12. **'Application'** means an application made in such form as may be prescribed by the Authority from time to time.
13. **'Applicant'** means any person who applies to the Authority with an intention to develop building as per these bye-laws. The Applicant shall be the owner of the property or his authorised representative or a promoter authorised by the owner.
14. **'Approved'** means as approved/sanctioned by the Authority under applicable Bye-Laws
15. **'Architect'**- means a person holding a graduate degree in Bachelor of Architecture from any institute recognized by the Council of Architecture (COA) and has his/her name entered in the register of COA for the time being, with a valid COA Registration number.
16. **'Architect/Professional on record'**- means an architect/Competent professional who is brought on record to represent his/her client for a construction project, to act on their behalf regarding building licenses and process of construction (Qualification, experience &competence as notified by the Government). He / She may be registered with the Authority for the cause (Registration procedure as per **Appendix-I**).
17. **'Auditorium'** means Premises having an enclosed space to seat audience and stage for various performances such as concerts, plays, music etc.
18. **'Authority'**- means the Local Authority which has been created by a statute and which, for the purpose of administering / undertaking the various functions specified in these Byelaws, , may authorize a committee or the Commissioner or any other designated officer of Local Body to act on its behalf; hereinafter called the 'Authority'.
19. **'Balcony'** means a horizontal projection with a handrail or balustrade, to serve as passage or sit out place.
20. **'Basement storey or cellar'** means any storey, which is partly / wholly below the average ground level contiguous to the building, with one or more than one level. The basement height should not project more than 1.2m above the average ground level.
21. **'Bifurcation'** means as defined in the KTCP (Approval of Plot) Rules 2017
22. **'Building'**- means a structure constructed with any materials whatsoever for any purpose, whether used for human habitation or not, and includes: -
  - i) a house, out-house, stable, privy, shed, hut, wall, verandah, fixed platform, plinth, doorstep and any other such structure, whether of masonry, bricks, wood, mud, metal or any other material whatsoever;
  - ii) a structure on wheels simply resting in the ground without foundation;
  - iii) a ship, vessel, boat, tent and any other structure used for human habitation or used for keeping or storing any article or goods;
  - iv) Foundation, plinth, walls, floors, roofs, chimneys, plumbing and building services, fixed platforms etc.
  - v) Verandahs, balconies, cornices, projections etc.
  - vi) Parts of a building or anything affixed thereto
  - vii) Any wall enclosing or intended to enclose any land or space, sign and outdoor display structures; etc.,
  - viii) Tanks constructed or fixed for storage of chemicals or chemicals in liquid form and for storage of water, effluent, swimming pool, ponds etc.,
  - ix) All types of buildings as defined in (a) to (k) below, except tents, shamianas and tarpaulin shelters erected temporarily for temporary purposes and ceremonial occasions, shall be considered to be 'building'.

**Types of Buildings based on use of premises or activity:**

- a. **'Residential Building'**- includes a building in which sleeping and living accommodation is provided for normal residential purposes, with cooking facilities and includes one or more family dwellings, apartments/flats, and private garages of such buildings.
  - b. **'Educational Building'**- Includes a building exclusively used for a school or college, recognized by the appropriate Board or University, or any other Competent Authority involving assembly for instruction, education or recreation incidental to educational use, and including a building for such other uses as research institution. It shall also include quarters for essential staff required to reside in the premises, and building used as a hostel captive to an educational institution whether situated in its campus or outside.
  - c. **'Institutional Building'**- Includes a building constructed by Government, Semi Government Organizations or Registered Trusts and used for medical or other treatment, or for an auditorium or complex for cultural and allied activities or for an hospice, care of persons suffering from physical or mental illness, handicap, disease or infirmity, care of orphans, abandoned women, children and infants, convalescents, destitute or aged persons and for penal or correctional detention with restricted liberty of the inmates ordinarily providing sleeping accommodation and includes dharamshalas, hospitals, sanatoria, custodial and penal institutions such as jails, prisons, mental hospitals, houses of correction, detention and reformatories etc.
  - d. **'Assembly Building'**- means a building or part thereof, where groups of people (not <50) congregate or gather for amusement, recreation, social, religious, patriotic, civil, travel and similar purposes and this includes buildings of drama and cinemas theatres, drive-in theatres, assembly halls, city halls, town halls, auditoria, exhibition halls, museums, 'mangal karyalayas', skating rinks, gymnasiums, restaurants, eating or boarding houses, places of worship, dance halls, clubs, gymkhana and road, railways, air, sea or other public transportation stations and recreation piers.
  - e. **'Business Building'**- Includes any building or part thereof used principally for transaction of business and/or keeping of accounts and records including offices, banks, professional establishments, court houses etc., if their principal function is transaction of business and/or keeping of books and records.
  - f. **'Commercial/Mercantile Building'**- Includes a building or part thereof used as shops, stores or markets for display and sale of wholesale and or retail goods or merchandise, including office, storage and service facilities incidental thereto and located in the same building
  - g. **'Industrial Building'**- Includes a building or part thereof wherein products or material are fabricated, assembled or processed, such as assembly plants, laboratories, power plants, refineries, gas plants, mills, dairies and factories etc.
  - h. **'Storage Building'**- means a building or part thereof used primarily for storage or shelter of goods, wares, merchandise and includes a building used as a warehouse, cold storage, freight depot, transit shed, store house, public garage, hanger, truck terminal, grain elevator, barn and stables.
  - i. **'Hazardous Building'**- Includes a building or part thereof used for
    - i. Storage, handling, manufacture or processing of radioactive substances or highly combustible or explosive materials or of products which are liable to burn with extreme rapidity and/or producing poisonous fumes or explosive emanations. and
    - ii. Storage, handling, manufacture or processing of which involves highly corrosive, toxic or noxious alkalis, acids, or other liquids, gases or chemicals producing flame, fumes and explosive mixtures etc. or which result in division of matter into fine particles capable of spontaneous ignition.
  - j. **'Mixed Land Use Building'**- means a building partly used for non-residential activities and partly for residential purpose.
  - k. **'Wholesale Establishment'**- means an establishment wholly or partly engaged in wholesale trade and manufacture, wholesale outlets, including related storage facilities, warehouses and establishments engaged in truck transport, including truck transport booking agencies.
- Types of building based on design:**
- a. **'Detached Building'**- means a building with walls and roofs independent of any other building and with open spaces on all sides within the same plot.
  - b. **'Semi-detached Building'**- means two buildings, together having not more than 4 dwelling units with a maximum of G+1 floor, attached to each other with a common wall and each building having setbacks only on three sides.

c. '**Row Housing**' – means two or more dwelling units with a maximum of G+1 floor, in a row attached to each other, where the intermediate dwelling units have only front and rear setbacks and the dwelling units on the extreme ends have setbacks on three sides.

**Types of building based on height:**

- a. B1- means residential buildings of G+1 floors upto 4 dwelling units
- b. B2- means all buildings upto G+2 floors other than B1 buildings and Industrial buildings
- c. B3- means all low-rise buildings other than B1 & B2 buildings and Industrial buildings.
- d. B4- means all high-rise buildings (multi storey buildings) other than Industrial buildings.
- e. B5- means all Industrial buildings

**Types of building based on other features:**

a. '**Multi-Level Car parking**'- means a building partly below ground level having two or more basements or above ground level with two or more floors, primarily to be used for parking of cars, scooters or any other type of light motorized vehicle.

b. '**Unsafe Building**'- Includes a building which:

- i) Is structurally unsafe, or
- ii) Is insanitary, or
- iii) Is not provided with adequate means of ingress or egress or
- iv) Constitutes a fire hazard or
- v) Is dangerous to human life or
- vi) In relation to its existing use, constitutes a hazard to safety or health or public welfare by maintenance, dilapidation or abandonment.

Note: All unsafe buildings /structure will require be restoring by repairs, demolition or dealing with as directed by the Authority. The relevant provisions of the Act shall apply for procedure to be followed by the Authority in taking action against such buildings

**23. 'Building line'** means the line upto which the plinth of building may lawfully extend within the plot on a street or an extension of a street and includes the line prescribed, if any in the Master Plan or Town Planning scheme. No portion of the building may extend beyond this line.

**24. 'Building Site'** means a plot held for building purposes, approved as per the rules framed under Section 17 of KTCP Act.

**25. 'Bus Depot'** means a premise used by public transport agency or any other agency for parking, maintenance and repair of buses. These may include the workshop.

**26. 'Bus Terminal'** means a premise used by public transport agency to park the buses for short duration to serve the public. It may include the related facilities for passengers.

**27. 'Canopy'**- shall mean a cantilevered projection from the face of the wall over an entry to the building at the lintel or slab level provided that:

- i) It shall not project beyond the plot line.
- ii) It shall not be lower than 2.3 m. or 7'- 6' when measured from the ground.
- iii) There shall be no structure on it and the top shall remain open to sky

**28. 'Carpet Area'** means the net usable floor area of an apartment or commercial premises, excluding the area covered by the external walls, areas under services shafts, exclusive balcony or verandah area and exclusive open terrace area, but includes the area covered by the internal partition walls of the apartment/ commercial premises.

**29. 'Chajja'** means a continuous sloping or horizontal cantilever projection provided over an opening or external wall to provide protection from sun and rain.

**30. 'Chimney'** means a structure usually vertical containing a passage or flue by which the smoke, gas, etc. of a fire or furnace are carried off by means of which a draught is created

**31. 'Common wall'** means; a wall built on land belonging to two adjoining owners, the wall being the joint property of both owners.

a) If two adjoining owners build a dividing wall on their property, they are not common walls and no part of the footings of either wall shall project on to the land of the adjoining owner, except by legal agreement between the owners. and

b) Any such 'common' or 'dividing' wall shall be considered for the purpose of these byelaws, as being equivalent to an external wall as far as the thickness and height are concerned.

**32. 'Community Hall'** means congregational place to be developed by government or local bodies, trust, society, etc., having a maximum of 300m<sup>2</sup> carpet area of hall without separate kitchen and dining. No upper floor shall be permitted.

**33. 'Construction'** means; Any erection of a structure or a building, including any addition or extension thereto either vertically or horizontally, but does not include any repair and

renovation of an existing structure or building, or, construction, maintenance and cleansing of drains and drainage works and of public latrines, urinals and similar conveniences, or, the construction and maintenance of works meant for providing supply of water for public, or, the construction or maintenance, extension, management for supply and distribution of electricity to the public; or provision for similar facilities for publicity.

- 34. 'Conversion of Occupancy'**- means the change from one occupancy to other occupancy or any change in building structure or part thereof resulting in a change of space and use requiring additional occupancy certificate.
- 35. 'Corner Plot'** means a plot facing two or more intersecting streets / roads.
- 36. 'Corridor'** means a common passage or circulation space connecting separate rooms or different parts of the same building including a common entrance hall.
- 37. 'Cornice'**- means a sloping or horizontal structural overhang usually provided over openings or external walls to provide protection from sun and rain.
- 38. 'Courtyard'** means a space permanently open to sky, enclosed fully or partially by buildings and maybe at ground level or any other level either in the interior or exterior of a building within the site.
- 39. 'Cultural buildings'** means a building built by a Trust, Society, Government or Local body for cultural activities.
- 40. 'Damp Proof Course'**- means a course consisting of some appropriate water proofing material provided to prevent penetration of dampness or moisture.
- 41. 'Density of Households'** means number of dwelling units per hectare
- 42. 'Density of Population'** means concentration of population expressed in terms of number of persons per hectare in a particular area.
- 43. 'Development'** with its grammatical variations means the carrying out of building, engineering, mining or other operations in, or over or under land or water, or the making of any material change in any building or land (including compound wall) or in the use of any building or land and includes sub-division of any land.
- 44. 'DR/T.D.R.'** – means Development Rights or Transfer of Development Rights available for plots as prescribed under Section 14B of KTCP Act and the Rules framed thereof.
- 45. 'Drains'** means natural valleys intended for flow of storm water /rain water
- 46. 'Drainage system'** – means a system or a line of pipes, with their fittings and accessories, such as manholes, inspection chambers, traps, gullies, floor traps used for drainage of building or yards appurtenant to the buildings within the same cartilage for conveying surface water or a system for the removal of any waste water.
- 47. 'Duplex'** means a dwelling unit in two levels connected with an internal staircase.
- 48. 'Dwelling'**- means a building or a portion thereof which is designed or used wholly or principally for residential purposes for one family.
- 49. 'Empanelled Professional'** means professionals such as Architects, Engineers, Structural consultants, MEP consultants, Environment consultants etc., who are empanelled by the Authority as per the provisions of these bye-laws as authorised persons to inspect the plots before, during, and after construction, as the case may be, to certify the constructions made as per the provisions of the approved plans and report to the Authority and also to sanction building plans of certain buildings as notified by the government.
- 50. 'Encroachment'**- means an act to enter into the possession or rights either of permanent or temporary nature on a land or built up area of a private property or local body or state/central Government.
- 51. 'Existing development'** means all developments (including buildings) which existed before coming into force of the Karnataka Municipal Corporations Act 1976, and all approved developments thereafter (including building) and which are completed or under development at the time of commencement of these bye-laws.
- 52. 'Existing Use'**- means use of a building or structure existing before the commencement of these Bye-Laws.
- 53. 'Exit'**- means a passage channel or means of egress from the building, its storey or floor to a street or, other open space of safety; whether horizontal, outside and vertical exits meaning as under: -
  - i) Horizontal exit means an exit, which is a protected opening through or around a fire well or bridge connecting two or more buildings.
  - ii) Outside exit mean an exit from building to a public way to an open area leading to a public way or to an enclosed fire-resistant passage leading to a public way, and
  - iii) Vertical exit means an exit used for ascending or descending between two or more levels including stairway, fire towers, ramps and fire escapes.

**54. 'External Wall'** means the outer wall of the building not being a partition wall, even though an adjoining wall of another building and also a wall abutting on an interior open space of any building.

External wall of an apartment or commercial premises means the outer wall of the apartment or commercial premises, even though an adjoining wall of another apartment or commercial premises.

**55. 'First floor'** means the floor immediately above the ground floor or stilt, on which second and other floors follow subsequently

**56. 'Flatted factory'** means premises having group of non-hazardous small industrial units which are permissible under the Zonal Regulations and these units may be located in multi-storied industrial buildings.

**57. 'Floor'** means the lower surface in a storey on which one normally walks in a building

**58. 'Floor Area Ratio (FAR)'** means the quotient of the ratio of the combined gross floor area of all the floors, excepting areas specifically, exempted under the Zonal Regulations, to the total area of the plot. Viz.

Floor Area Ratio =	Total floor area of all the floors. Plot Area
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**59. 'Fire and/or Emergency Alarm System'**- means Fire alarm system comprises of components for manually or automatically detecting a fire, initiating an alarm of fire and initiating other actions as appropriate.

**60. 'Fire Hazard Industries'**-

i) 'Low Fire Hazard Industries' includes engineering industries using/processing or assembling non-combustible materials i.e. lathe machines, steel works, steel components etc.

ii) 'Moderate Fire Hazard Industries' includes industries using / processing combustible materials but not flammable liquid etc., plastic industries, rubber, and PVC industries, textile, paper, furniture, flour mills etc.

iii) 'High Fire Hazard Industries' includes industries using/processing flammable liquids, gases, chemicals petroleum products, plastic or thermo setting group etc.

**61. 'Fire Lift'**- Means a special lift designed for the use of fire service personnel in the event of fire or any other emergency.

**62. 'Fire Proof Door'**- Means a door or shutter fitted to a wall opening, and constructed and erected with the requirement to check the transmission of heat and fire for a period.

**63. 'Fire Pump'**- Means a machine, driven by external power for transmitting energy to fluids by coupling the pump to a suitable engine or motor, which may have varying outputs/capacity but shall be capable of having a pressure of 3.2 kg/ cm<sup>2</sup> at the topmost level of multi-storey or high-rise building.

**64. 'Fire Pump-Booster Fire Pump'**- Means a mechanical/electrical device that boots up the water pressure at the top level of a multi-storey / high-rise building and which is capable of a pressure of 3.2 kg/cm<sup>2</sup> at the nearest point.

**65. 'Fire Resistance'**-means Fire resistance is a property of an element of building construction and is the measure of its ability to satisfy for a stated period some or all of the following criteria:

a. resistance to collapse,

b. resistance to penetration of flame and hot gases, and

c. Resistance to temperature rise on the unexposed face up to a maximum of 180°C and/or average temperature of 150°C.

**66. 'Fire Resistance Rating'**- The time that a material or construction will withstand the standard fire exposure as determined by fire test done in accordance with the standard methods of fire tests of materials or structures.

**67. 'Fire Separation'**- Means the distance in meters measured from any other building on the site or from another site, or from the opposite side of a street or other public space to the building.

**68. 'Fire Service Inlet'**- Means a connection provided at the base of a building for pumping up water through in-built fire-fighting arrangements by fire service pumps in accordance; with the recommendation of the Chief Fire Officer.

**69. 'Fire Tower'**- Means an enclosed staircase that can only be approached from the various floors through landings or lobbies separated from both the floor area and the staircase by fire resistant doors and open to the outer air.

**70. 'Fire Resisting Building'**- means a building in which material, which has, appropriate degree of fire resistance is used.

- 71. 'Footing'**- means a foundation unit constructed in stone masonry or concrete under the base of a wall or column for the purpose of distributing the load over a larger area.
- 72. 'Form'** means a Form appended these bye-laws;
- 73. 'Foundation'** means that part of structure which is below the lowest floor and which provides support for the superstructure and which transmits the load of the superstructure to the bearing strata.
- 74. 'Frontage'** means the width of the site/land abutting the access/public road.
- 75. 'Gallery'**- means an intermediate floor or platform projecting from a wall of an auditorium or a hall providing extra floor area, and or additional seating accommodation and includes the structures provided for seating in stadia.
- 76. 'Garage-Private'**- means a building or a portion thereof designed and used for the parking of vehicle.
- 77. 'Garage-Public'** – means a building or portion thereof, designed other than as a private garage, operated for gain, designed and/or used for repairing, servicing, using, selling or storing or parking motor driven or other vehicles.
- 78. 'Gas Go down'** means premises where LPG cylinders are stored.
- 79. 'Government'** means the Government of Karnataka.
- 80. 'Ground Floor'** means the Floor immediately above the level of the adjoining average ground level on all sides having approach directly from the road or above the basement floor.
- 81. 'Ground Coverage'** means area covered by the building immediately above the ground level contiguous to the building. Covered area does not include the space covered by ramps around the building, roof of basement floor beyond the plinth of the building projecting above the ground level, structures for services permitted in the setback area, garden, rocky area, well and well structures, plant, nursery, water pool, swimming pool (if uncovered) platform around a tree, tank, fountain, bench with open top and unenclosed sides by walls cut outs and ducts which are open to sky and the like drainage, culvert, conduit, catch-pit, gully-pit, chamber gutter and the like, within the site, compound or boundary wall, gate, unstoreyed porch and portico, chejja, slide, swing, uncovered staircase, watchman booth, pump house and the like within the site.  
Ground Coverage in hilly areas shall be as prescribed in the Zonal Regulations.
- 82. 'Habitable Room'** means a room occupied or designed for occupancy by one or more persons for study, living, sleeping, Eating, cooking but does not include bathrooms water closet compartments, laundries serving and storage pantries, corridors, cellars, and spaces that are not used frequently or during extended periods.
- 83. 'Head room'** means the clear space between the finished floor level and ceiling/ beam bottom. Minimum headroom shall be 2.4m.
- 84. 'Heritage building'** means a building possessing architectural aesthetic, historic cultural values, which are declared as heritage building by the competent authority or government within whose jurisdiction such building is situated.
- 85. 'Heritage Precinct'** means an area comprising heritage building or buildings and precincts there of or related places which is declared as such by the competent authority or government within whose jurisdiction such building is situated
- 86. 'High-rise Building'** means a building having height of 15 m and above.
- 87. 'Height of Building'** means the vertical distance measured from the average level of the ground around and contiguous to the building to the top of the roof in case of flat roofs and in the case of sloped roofs up to the point where the external surface of the outer wall intersects a finished surface of the sloping roof at the eave level  
**In hilly areas**, if the average level of the ground around and contiguous to the building is below the road level (road for which FAR is considered), then the height of the building shall be measured from such road level and not from the average ground level. The formed level made by filling of natural ground, if considered for the height of the building, shall not be more than 2.0m. above the road level.
- 88. Hospital:** means a premise providing medical facilities of general or specialized nature for treatment of in-patient and out-patients.
- 89. Hotel:** means Premises used for lodging with payment, with or without boarding facilities.
- 90. 'Illuminated Exit Signs'**- means a device for indicating the means of escape during normal circumstances and power failure.
- 91. 'Land use'** includes the purpose to which the site or part of the site or the building or part of the building is in use or permitted to be used by the Authority. Land use includes zoning of land use as stipulated in the Master Plan and the Zonal Regulations.
- 92. 'Licence'** means a valid permission or authorization in writing by the Authority to carryout development of building or a work regulated by these Bye- Laws.

- 93. 'Licensed Professional'** means Qualified professionals who have been registered with the Urban Local Body as per the Qualification and competence notified by the Government and therefore possess the license to provide professional services in Building construction. Only licensed professionals would be allowed to be professionals on record.
- 94. 'Lift'** means an appliance designed to transport persons or materials between two or more levels in a vertical or substantially vertical direction by means of a guided car platform. The word 'elevator' is also synonymously used for 'lift'.
- 95. 'Lobby'**- means a covered space in which all the adjoining rooms open.
- 96. 'Lodging House'** means a premise used for lodging on payment. This is synonymous to Hotel
- 97. 'Loft'** means a residual space above normal floor level which may be constructed or adopted for storage purposes.
- 98. 'Market value'** means the guideline value of the land notified under section 45B of the Karnataka Stamp Act, 1957
- 99. 'Master Plan'** means Master Plan prepared for the local planning area approved by the government under the Karnataka Town and Country Planning Act, 1961.
- 100. 'Means of Escape'**- means an escape route provided in a building for safe evacuation of occupants.
- 101. 'Mezzanine Floor'**- means an intermediate floor between Ground floor and First floor only, with area of mezzanine floor restricted to one third of the area of that floor and with a minimum height of 2.20m. Mezzanine floor is permitted for non-residential uses only. Such Mezzanine floor shall be accessible only from the Ground floor.
- 102. 'Multilevel Car Parking (MLCP)'** means multilevel structure used for car parking connected to all floors by means of ramps / mechanical elevators. MLCP can be an independent structure or part of a building with other land uses. However, in the portion used for parking, no other land uses shall be permitted.
- 103. 'Multiplex complex'** means a building housing an entertainment and cultural centre including cinema theatres, restaurants, food courts and shops as defined in Karnataka Cinema Regulations Act 1964. The development of such buildings shall be governed as per the provisions of Karnataka Cinema Regulations Act 1964.
- 104. 'MCB/ELCB'** means Devices for tripping of electrical circuits in event of any fault in the circuit or installation.
- 105. 'Non-Combustible Material'**- means a material which is not liable to burn or add heat to a fire when tested for combustibility in accordance with the latest code of Bureau of Indian Standards Method of Test for combustibility of Building Materials.
- 106. 'Nursing home** means A premises having medical facility for in-patients and out patients, having up to 30 beds, it shall be managed by a doctor or a group of doctors
- 107. 'Occupancy or use'**-means the principal occupancy or use for which a building or a part of a building is intended to be used. For the purposes of classification of a building according to occupancy, occupancy shall be deemed to include the subsidiary occupancies which are contingent upon it.
- 'Mixed occupancy'** buildings being those in which more than one occupancy is present in different portions of the buildings.
- 108. 'Open space in a plot'** means an area forming an integral part of the plot, left open to sky.
- 109. 'Owner'** means a person who for the time being is receiving or is entitled to receive, whether on his own account or as agent, trustee, guardian, manager or receiver for another person or for any religious or charitable purpose, the rent or profit of the property in connection with which the word is used and in whose name the approval for development is issued.
- 110. 'Parapet'** means a low wall or railing built along the edge of a roof or a balcony.
- 111. 'Parking space'** means an area enclosed or unenclosed, covered or open sufficient in size to park vehicles together with a drive-way connecting the parking space with a public street or any public area and permitting the ingress and egress of the vehicles.
- 112. 'Partition'** means an interior non-load bearing barrier, one storey or part-storey in height.
- 113. 'Partition Wall'** includes (i)A wall forming part of a building and being used or constructed to be used in any part of the height or length of such wall for separation of adjoining buildings belonging to different owners or constructed or adopted to be occupied by different persons; or ii) A wall forming part of a building and standing in any part of the length of such wall, to a greater extent than the projection of the footing on one side or ground of different owners.

- 114.** ‘**Plinth**’ means the portion of a structure between the surface of the surrounding ground and surface of the floor immediately above the ground.
- 115.** ‘**Plinth Area**’ means the built up covered area measured at the floor level of the basement or of any storey including balconies but excluding ducts/ services and lift shaft ( except in the lowermost floor of lift shaft) and open cutout areas.
- 116.** ‘**Plinth Level**’ means the level of the floor of a building immediately above the surrounding ground.
- 117.** ‘**Plot / Site**’ means a parcel of land enclosed by definite boundaries having a means of access.
- 118.** ‘**Porch or Portico**’ means a roof cover supported on pillars or cantilevered projection for the purpose of pedestrian or vehicular approach to a building without any structure above.
- 119.** ‘**Premium F.A.R.**’ means the FAR over and above the permissible FAR allowed, on collection of additional fee as prescribed in the Zoning Regulations.
- 120.** ‘**Prohibited area**’ means any area specified or declared to be a prohibited area under section 20A of the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 121.** ‘**Promoter**’ means –
- (i) A person who constructs or causes to be constructed an independent building or a building consisting of Apartments, or converts an existing building or a part thereof into Apartments, for the purpose of selling all or some of the Apartments to other persons and includes his assignees; or
  - (ii) A person who develops land into a project, whether or not the person also constructs structures on any of the plots, for the purpose of selling to other persons all or some of the plots in the said project, whether with or without structures thereon; or
  - (iii) Any development Authority or any other Public body in respect of Allottees of –
    - a. Buildings or Apartments, as the case may be, constructed by such Authority or body on lands owned by them or placed at their disposal by the Government; or
    - b. plots owned by such Authority or body or placed at their disposal by the Government; for the purpose of selling all or some of the Apartments or plots, or
  - (iv) An Apex State level co-operative housing finance society and a primary co-operative housing society which constructs Apartments or buildings for its members or in respect of the Allottees of such Apartments or buildings; or
  - (v) Any other persons who acts himself as a builder, coloniser, contractor, developer, estate developer or by any other name or claims to be acting as the holder of a power of attorney from the owner of the land on which the building or apartment is constructed or plot is developed for sale; or
  - (vi) such other person who constructs any building or apartment for sale to the general public
- Explanation** – *For the purpose of this clause, where the person who constructs or converts a building into apartments or develops a plot for sale and the persons who sells apartments or plots are different persons, both of them shall be deemed to be the promoters and shall be jointly liable as such for the functions and responsibilities specified, under this Act or the rules and regulations made there under;*
- For the purpose of this clause, Apartment, whether called block, chamber, dwelling unit, flat, office, showroom, shop, go down, premises, suit, tenement, unit or by any other name, means a separate and self-contained part or an immovable property, including one or more rooms or enclosed spaces, located on one or more floors or any part thereof, in a building or on a plot of land, used or intended to be used for any residential or commercial use such as residence, office, shop, showroom or go down or for carrying on any business, occupation, profession or trade or for any other type of use ancillary to the purpose specified;*
- This is synonymous to Developer.
- 122.** ‘**Protected monument**’ means an ancient monument which is declared to be of national importance by or under the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 123.** ‘**Public and semi-public building**’ means a building used or intended to be used either ordinarily or occasionally by the public such as offices of state or central government or local authorities, law courts, jails, Police Station, a church, temple, chapel, mosque or any place of public worship, Educational, cultural and religious institutions, medical and health institutions, cultural institutions like theatres, opera houses etc., of a predominantly non-commercial nature.

- 124.**     ‘**Pump room**’ means the room provided below ground level adjacent to the sump tank to house various types of pumps with self-priming mechanism. However, the entrance shaft of the pump room of maximum 2 m x 2 m may be permitted above the ground level.
- 125.**     ‘**Recreational Club**’ means a premise used for assembly of a group of persons for social and recreational purposes with all related facilities.
- 126.**     ‘**Regulated area**’ means any area specified or declared under section 20B under the Ancient Monuments and Archeological Sites and Remains Act, 1958 (Central Act 24 of 1958).
- 127.**     ‘**Repair Shop**’ means a premise similar to retail shop for carrying out repair of household goods, electronic gadgets, automobiles, cycles etc.,
- 128.**     ‘**Restaurant**’ means a premise used for serving food items on commercial basis including cooking facilities, with covered or open space or both having seating facilities.
- 129.**     ‘**Retail Shop**’ means a premise for sale of commodities directly to the consumer with necessary storage.
- 130.**     ‘**Retention Activity**’ means an activity or use which is allowed to continue, notwithstanding its non-conforming nature in relation to the use permitted in the adjoining or surrounding area.
- 131.**     ‘**Road/Street**’ means any street, road, square, Court, alley, passage or riding path over which the public have a right of way and includes: -  
 (a) The roadway over any public bridge or causeway;  
 (b) The footway attached to any such street, public bridge or causeway; and  
 (c) The drains attached to any such street, public bridge or causeway and the land, whether covered or not by any pavement verandah or other structure which lies on either side of the roadway up to the boundaries of the adjacent property, whether that property is private property or property belonging to the Government or the Corporation.
- 132.**     ‘**Road/Street Level or Grade**’ means the officially established elevation or grade of the centerline of street upon which a plot fronts, and if there is no officially established grade, the existing elevation or grade of street at its mid-point, at the center of the plot.
- 133.**     ‘**Road/Street Line**’ means the line defining the side limits of a road/street, where existing road width is considered and the road widening line where proposed road width is considered.
- 134.**     ‘**Road Width or Width of Road/Street**’ means the right of way/distance between the boundaries of the property on either side of the road including, carriageway, footways, service road at same level or at different level and storm water drains as laid down in the city survey or Master Plan or the prescribed road lines by any act of law and measured at right angles to the course or intended course of direction of such road.
- 135.**     ‘**Room Height**’ means the vertical distance measured from the finished floor surface to the finished ceiling surface. Where a finished ceiling is not provided, the underside of the joists or beams or tie beams shall determine the upper point of measurement.
- 136.**     ‘**Service Apartments**’ means fully furnished room or suite or rooms with kitchen, which is intended to be used on rental basis.
- 137.**     ‘**Service Road**’ means a road / lane provided adjacent to a plot for access or service purposes as the case may be and shall be parallel to the main road and may or may not be at grade with the main road and shall be partly or fully falling within the proposed road width of the main road.
- 138.**     ‘**Setback**’ means the distance prescribed under the Zonal Regulations of respective LPAs between the plot boundary and the plinth of the building or the covered Cantilever projection of the building in any floor. If cantilever projection of the building is proposed, the prescribed setback shall be provided between the plot boundary and such covered cantilever projection.
- 139.**     ‘**Set-back Line**’ means a line drawn at the setback distance, parallel to the plot boundaries or road widening line as prescribed in the Master Plan / Zonal Regulations, or as decided by the Authority (only road widening line), beyond which nothing can be constructed towards the plot boundaries except as prescribed in the Zonal Regulations.
- 140.**     ‘**Site Plan**’ means a detailed Plan showing the proposed placement of structures, parking areas, open space, landscaping, and other development features, on the plot as required by specific sections of these Bye laws.
- 141.**     ‘**Spiral Staircase**’ means a staircase forming continuous winding curve round a central point or axis provided in an open space having tread without risers.
- 142.**     ‘**Staircase room**’ means a room accommodating the stair and for purpose of providing protection from weather and not used for human habitation.

- 143.** ‘**Stair Cover**’ means a structure with a covering roof over a staircase and its landing built to enclose only the stairs for the purpose of providing protection from weather and not used for human habitation.
- 144.** ‘**Stilt floor**’ means open parking area provided at ground level. The height of the stilt floor shall be a minimum of 2.4 m. & maximum of 2.7m height (floor to beam bottom or ceiling whichever is less). The height shall be considered for calculating the total height of the building. In case of mechanical or multi-level parking the maximum height of the stilt floor shall be 3.75m.
- 145.** ‘**Storey**’ means the space between the surface of one floor and the surface of the other floor vertically above or below. The minimum floor to floor height shall not be less than 2.9m.
- 146.** ‘**To Erect**’- in relation to a building means:
- i) To erect a new building on any plot whether previously built upon or not;
  - ii) To re-erect any building of which portions above the plinth level have been pulled down, burnt or dismantled.
- 147.** ‘**Un-authorised Development**’- means the erection or re-erection, addition or alterations which is not approved or sanctioned by the Competent Authority or as defined under Section 76 FF of KTCP Act.
- 148.** ‘**Underground/Overhead Tank**’ means an installation constructed or placed for storage of water.
- 149.** ‘**Utility Area**’ means a covered area with at least one side open to the outside with the exception of 1m high parapet on the upper floors to be provided on the open side.
- 150.** ‘**Ventilation**’- means Supply of outside air into, or the removal of inside air from an enclosed space.
  - a. **Natural Ventilation** – means Supply of outside air into a building through window or other openings due to wind outside and convection effects arising from temperature or vapor pressure differences (or both) between inside and outside of the building.
  - b. **Positive Ventilation** – means the supply of outside air by means of a mechanical device, such as a fan,
  - c. **Mechanical Ventilation** – means supply of outside air either by positive ventilation or by infiltration by reduction of pressure inside due to exhaust of air, or by a combination of positive ventilation and exhaust of air.
- 151.** ‘**Water Closet (W.C)**’- means a water flushed plumbing fixture designed to receive human excrement directly from the user of the fixture. The term is used sometimes to designate the room or compartment in which the fixture is placed.
- 152.** ‘**Window**’- means an opening to the outside other than a door, which provides all or part of the required natural light or ventilation or both to an interior space and not used as a means of egress/ingress.
- 153.** ‘**Zonal Regulations**’ means the regulations of the Master Plan governing land use and developments.

### **CHAPTER - 3**

## **3. JURISDICTION AND APPLICABILITY AND PROCEDURAL REQUIREMENTS FOR OBTAINING BUILDING LICENCE**

### **3.1 Jurisdiction of Building Bye Laws**

These Building Bye-Laws shall apply to the building activity in the State for all Corporation Cities.

### **3.2 Applicability of Building Bye Laws**

These building byelaws shall be applicable to all building activities undertaken by private or Government agencies and read in conjunction with the Master plan /Metropolitan development plan or any other statutory plan in force, if any, and notifications, if any, with regard to the same and as amended from time to time and these building bye-laws may be reviewed after five years. Till such time the reviewed building byelaws are notified, these building byelaws will continue to be in force.

### **3.3 Applicability of Bye-Laws for all types of building developments**

Except hereinafter or otherwise provided, these Bye-Laws shall apply to all development, redevelopment, erection and/or re-erection of a building whether temporary or permanent as well as to the design, construction of, or reconstruction and additions and alterations to a building.

### **3.4 Applicability of Bye-Laws for Part construction**

Where the whole or part of a building is demolished or altered or reconstructed, except where otherwise specifically stipulated, these Building Bye-Laws shall apply only to the extent of the work involved.

### **3.5 Change of use or occupancy**

Where use of a building is changed, except where otherwise specifically stipulated, these Building Bye-Laws shall apply to all parts of the building affected by the change.

## **3.6 Requirement in respect of building sites**

### **3.6.1 Damp Sites**

Wherever the dampness of a site or the nature of the soil renders such precautions necessary, the ground surface of the site between the walls of any building erected thereon shall be rendered damp-proof to the satisfaction of the Authority.

### **3.6.2 Minimum Size of Site**

The minimum size of sites for the construction of different types of building or different use groups shall be in accordance with provisions of the Master Plan, Zonal Regulations and the Rules framed under Section 17 of KTCP Act 1961.

### **3.6.3 Sanction for Building Sites**

The Building sites which are not located in the approved layouts of the Competent Authority shall have sanction under section 17 of the KTCP Act, 1961, from the Planning Authority before sanction is accorded under these Bye-laws in such sites.

### **3.6.4 Restrictions on use of land for construction of buildings**

No piece of land shall be used as a site for the construction of buildings under the following circumstances:

- a) if the site is not drained properly or is incapable of being well drained;
- b) if the Authority considers that the site is insanitary or it is dangerous to construct a building on it;
- c) if the building is proposed on any area filled up with filthy and offensive matter without a certificate from the Health Officer and Corporation Engineer to the effect that it is fit to be built upon from health and sanitary point of view;
- d) if the owner of the building has not shown to the satisfaction of the Authority that all the measures required to safeguard the construction from constantly getting damp are being taken;
- e) if the building is for an office or public building including school, theatre or assembly on a site which has not been previously approved by the Authority;
- f) if it violates any provisions of and Zonal Regulations and
- g) if the plot is a revenue site for which permission under the Karnataka Land Revenue Act, 1964 is not obtained under section 95 thereof.

**Note:** If the proposed use of the building on the plot does not conform to the land use proposals of the Master plan or Zonal Regulations, permission from the Planning Authority for the change of land use has to be furnished.

## **3.7 Reconstruction**

The reconstruction in whole or part of a building which has ceased to operate due to fire, natural collapse or demolition having been declared unsafe, or which is likely to be demolished by or under an order of the Authority as the case may be and for which the necessary certificate has been given by the Authority.

## **3.8 Existing approved building**

Nothing in these Bye-Laws shall require the removal, alteration or abandonment nor prevent continuance of the lawfully established use or occupancy of an existing approved building unless, in the opinion of the Authority such a building is unsafe or constitutes a hazard to the safety of adjacent property or to the occupants of the building itself.

### **3.9 Development of Buildings**

#### **3.9.1 Building Licence:**

No person shall erect, re-erect or make addition/ alterations in any building or cause the same to be done without, first obtaining a separate building license for each such building from the Authority.

#### **3.9.2 Building Licence obtained before these bye-laws:**

Where any building licence which has been issued by the Authority before the commencement of these Building Bye-Laws and where construction is in progress and has not been completed within the specified period from the date of such licence, the said permission shall be deemed to be sanctioned under these Bye-Laws and shall only be eligible for revalidation there under. Accordingly, where the validity of sanction has expired and construction has not commenced, construction shall be governed by the provisions of these Building Bye-Laws.

### **3.10 Procedure for obtaining building licence**

#### **3.10.1 Registration of Stake Holders**

The following Stake Holders involved in the development activities in the ULB shall register themselves with the Authority, as per the procedure prescribed in **Appendix-I**

- a. Promoters/ Developers who intend to undertake developments within the jurisdiction of the Authority.
- b. Land owners who intend to undertake any building activity as per these bye-laws
- c. Professionals for preparing plans and details for obtaining sanction from the Authority (as detailed in **Appendix-II**) and NOCs from different departments (as detailed in **Appendix-IV**), referred as professionals for drawings.
- d. Professionals who intend to supervise the implementation of various components specified in the plans sanctioned by the Authority, referred as professionals for supervision.
- e. Professionals who are empanelled by the Authority (as detailed in **Appendix-I**) to certify the constructions / implementations as per the provisions of the approved plans and also to sanction building plans as notified by the Government. and
- f. Contractors or Agencies implementing major components of the developments.

#### **3.10.2 Application for building plan approval:**

Every person (Owner or his authorised representative, including Promoter / Developer ) who intends to erect, re-erect or make alteration in any place in a building or demolish any building, shall apply in **Form-I** along with the required documents (as detailed in **Appendix-VI**) and payment of necessary fees (as detailed in **Appendix-VII**) along with all the drawings and details for obtaining building licence prepared by the professionals on record to prepare plans and details for obtaining licence from the Authority (as detailed in **Appendix-II**) and obtaining NOCs from other departments as applicable (as detailed in **Appendix-IV**). The Applicant shall also submit the application in **Form-II**, as applicable, for obtaining the required NOCs, along with payment of necessary fees.

#### **3.10.3 Verification of documents submitted:**

The CEO of the Authority shall verify the documents submitted along with the application and if found in order, will accept the application. In case of any discrepancy, an endorsement shall be issued in **Form III** to the applicant stating the discrepancy and the applicant may rectify the same and resubmit to the Authority.

#### **3.10.4 Evaluation of Technical details submitted:**

(1) If the application is accepted after finding that the documents submitted along with the application are in order, the TPO of the Authority or the empanelled professional or the designated officer notified by the Government shall evaluate the Technical drawing and details submitted by the Applicant, for compliance with the provisions of the Master plan, ZR and Bye-laws and compliance of the conditions incorporated for obtaining NOCs from different departments and submit the evaluation report to the CEO of the Authority, with noting of discrepancy, if any. The CEO shall approve the evaluation report with or without accepting the noting of discrepancy.

(2)In case the noting of discrepancy is accepted by the CEO, an endorsement shall be issued in **Form IV** to the applicant stating the discrepancy and the concerned professionals on record for drawings may rectify the same and resubmit to the Authority.

### **3.10.5 Forwarding details to obtain NOCs and issuing NOCs:**

(1) If the Technical drawing and details submitted are complying with the provisions of the Master Plan, ZR and Bye-laws and the requirements for obtaining NOCs from different departments, the CEO of the Authority shall forward the application, technical drawings and details submitted for NOCs to the concerned departments stating the timelines within which the NOCs have to be issued, (as detailed in **Appendix-VIII**), failing which the NOCs would be deemed to have been issued.

(2)All the respective departments shall verify the drawing and details submitted along with the application of the NOC and if found in order shall issue NOC within the time lines specified in **Appendix-VIII**, with or without site inspection, as required and forward the NOC to the Authority.

(3)In case of any discrepancy, the concerned department shall issue endorsement to the applicant stating the discrepancy and the concerned professionals on record for preparing the plans for NOC may rectify the same and resubmit to the concerned Department.

### **3.10.6 Submission of Site Inspection Report**

(1)If the Technical drawings and details submitted are accepted by the CEO, CEO of the Authority shall select the Empanelled professional (based on the qualification and competence notified by the Government and the procedure specified in **Appendix-V**) and inform the Empanelled professional in **Form-V** to inspect the site and submit Site Inspection Report for approval of site plan.

(2)On receipt of intimation from the Authority, the selected Empanelled professional shall inspect the site and submit site inspection report (as detailed in **Appendix-IX**) in **Form-VI** to the Authority, with noting of discrepancy, if any. The CEO of the Authority shall approve the site inspection report.

### **3.10.7 Action in case of discrepancy in site inspection report.**

If the noting of discrepancy in the Site Inspection Report submitted by the Empanelled professional, is accepted by the CEO, an endorsement in **Form-VII** to the applicant stating the discrepancy and the concerned professionals on record for drawings may rectify the same and resubmit to the Authority. The TPO of the Authority shall verify the resubmitted drawings and details for compliance of the noting of discrepancy accepted by the CEO and forward the same to the CEO and the CEO shall accept the same.

### **3.10.8 Sanctioning of Building Licence**

(1)On receipt of all the required NOCs from the concerned departments, or deemed NOCs issued by the Authority (in case NOCs are not issued by the concerned departments within the timelines specified in **Appendix-VIII**) and all the technical drawings and details accepted by the Authority and the Site Inspection Report being consistent with the details submitted by the applicant, the CEO of the Authority shall sanction the Building Licence within the timelines specified in **Appendix-VIII**.

(2)The Authority shall intimate the Applicant to pay the required fees (as specified in **Appendix-VII** for the various NOCs as well as the Building Licence.

(3) The CEO of the Authority shall issue the various NOCs received from the concerned departments and sanction building licence after receiving the required fees from the Applicant.

### **3.11 Plans for Sanction**

All Building plans submitted to the authority shall be prepared as per the Jurisdictional Master Plan, Zonal Regulations and Building Bye-laws.

**3.11.1 Key Plan:**

The key plan to be submitted along with the application shall be the related portion of the approved road map of the Authority on which the plot (on which Building sanction is applied for) is located (As detailed in **Appendix-IIA**).

**3.11.2 Site Plan:** (As detailed in **Appendix-II B**)

**3.11.3 Floor Plan of parking areas** (As detailed in **Appendix-II C**)

**3.11.4 Floor Plan of other uses** (As detailed in **Appendix-II D**)

**3.11.5 Sections of buildings** (As detailed in **Appendix-II E**)

**3.11.6 Elevations of buildings** (As detailed in **Appendix-II F**)

**3.11.7 Drawings for all services provided**

- a) Electrical system including energy saving measures and use of renewable energy (As detailed in **Appendix II-Ga**)
- b) Water supply system including water conservation measures (As detailed in **Appendix II-Gb**)
- c) Rain water harvesting and ground water recharging systems (As detailed in **Appendix II-Gc**)
- d) Sewerage system including STP and usage of treated water (As detailed in **Appendix II-Gd**)
- e) HVAC System (As detailed in **Appendix II-Ge**)

**3.11.8 Landscape plan**(As detailed in **Appendix-II-H**)

**3.11.9 Circulation Plan indicating vehicular and pedestrian movement and parking facilities including traffic impact study and report** (As detailed in **Appendix-II-I**)

**3.11.10 Structural Drawings and details** (As detailed in **Appendix-II-J**)

**3.11.11 Green Building drawings and details** (As detailed in **Appendix-II-K**)

**3.12 Signing of plans**

**3.12.1 Signing the Building Plans:**

All plans for submission to the Authority shall be signed by the owner(s) and by the competent professionals on record (to prepare the required plans for sanction) for the building.

**3.12.2 Signing of plans for NOC:**

All plans for submission to different departments for NOC, shall be signed by the owner(s) and by the Competent professionals on record (to prepare the required plans for NOCs) for the construction project.

**3.13 Alteration / Modification / Addition in Plans**

The concerned professional on record for preparing the particular plan which has to be altered, modified or added, shall make the necessary changes and submit to the Authority with joint validation of applicant along with an application in **Form-I** and payment of required fees.

**3.13.1 Alterations exempted from obtaining building licence**

No building licence is necessary for the following alterations, which do not otherwise violate any provisions regarding general building requirements, structural stability and fire safety requirements of these Bye-Laws;

- a) Plastering and patch repairs;
- b) Re-roofing or renewals of roof including roof of intermediate floors at the same height;
- c) Flooring and re-flooring;
- d) Opening and closing of windows, ventilators and doors not opening towards other properties and / or public road/property;
- e) Replacing fallen bricks, stones, pillars, beams etc.

- f) Construction or re-construction of sunshade not more than 75cm in width within one's land and not overhanging over a public street;
- g) Construction or re-construction of parapet not more than 1.5 m. in height and also construction or re-construction of boundary wall as permissible under these Bye-Laws;
- h) White-washing, painting, etc. including erection of false ceiling in any floor at the permissible clear height provided the false ceiling in no way can be put to use as a loft etc.;
- i) Reconstruction of portions of buildings damaged by storm, rains, fire, earthquake or any other natural calamity to the same extent and specification as existed prior to the damage provided the use conforms to provisions of Master Plan/Zonal Regulations;
- j) Erection or re-erection of internal partitions provided the same are within the purview of the Bye-Laws.

### **3.14 Fees for sanction of Building licence**

Every person intending to construct or reconstruct or alter any building shall pay to the Authority fund, the various fees prescribed in **Appendix-VII**. The Authority or the Government shall prescribe the rate of fees, time to time.

### **3.15 Sanction**

#### **3.15.1 Sanction by the Authority**

The Authority shall sanction the building plan by signing the Building Licence in **Form-VIII** and the drawings.

#### **3.15.2 Sanction by Empanelled Professionals:**

Competent Professionals empanelled with the Authority, shall be authorized to issue building licence as notified by the Government.

#### **3.15.3 Grant of Licence or Refusal**

- a) The Authority shall either sanction or refuse sanction to the plans and specifications or may sanction them with such modification or directions as it may deem necessary as per these Byelaws.
- b) In case where the building scheme requires the clearance of an Urban Art Commission, if constituted for the city then the Authority shall issue the building license only after getting the clearance from the Urban Art Commission.
- c) The licence shall be issued by the Authority for the different types of buildings within the timelines prescribed in **Appendix-VIII**, failing which the sanction shall be deemed to have been accorded, provided that the failure to sanction the licence by the Authority within the timelines is immediately brought to the notice of the Authority in writing by the person who has applied for licence. Nothing shall be construed to authorize any person to do anything in contravention or against the terms of the lease or title of the land or against any regulations, Bye-Laws or ordinance operating at the time of execution of the work at site.
- d) It is further clarified that:
  - i) The above provision of deemed sanction shall be applicable only in those cases where the building plan are in conformity with the Master Plan/Zonal Regulations/Bye-laws.
  - ii) No application under **Clause 3.10.2** shall be valid unless the information required by the Authority under these Bye-Laws or any further information which may be required has been furnished to the satisfaction of the Authority. and
  - iii) The Owner/ Competent Professional on record (for drawings and supervision) and the Empanelled professionals certifying the works at site shall be fully responsible for any violation of Master Plan/Zonal Regulations/ Building Bye-Laws, etc. In case of any default they shall be liable for action as per the provisions of Rules framed under Section 73 and Section 76 FFF of KTCP Act, 1961. Any construction so raised shall be liable for action as per the provisions of Rules framed under Section 76 F of KTCP Act, 1961.

#### **3.15.4 Duration of Sanction, Revalidation and revised Sanction**

Once a building license is sanctioned, it shall remain valid for a period of two years from the date of sanction for residential, industrial and commercial buildings for commencement of work at site.

The project shall be completed within the timelines prescribed in **Appendix-VIII**. The validity period of sanction shall be extended as specified in **Appendix-X** in case of additions / alterations proposed in the project. If multiple blocks / buildings are proposed in the sanctioned

plan, a schedule of executing the blocks in sequence has to be specified and the validity of sanction shall be extended accordingly as specified in **Appendix-X**.

If the Applicant intends to avail extension for the validity period of the sanction, he shall make an application stating the reason for not completing the project within the validity period and the validity of sanction shall be extended for the requested period after paying the revalidation fees prescribed in **Appendix-VII**.

Revalidation shall not be permitted if the construction has not commenced within the validation period of two years from the date of sanction. In such cases the Applicant has to apply for revised sanction as per the Master Plan / Zonal Regulation and Building Bye-laws as in force at the time of application of revised sanction.

### **3.15.5 Revocation of Licence:**

The Authority shall revoke any building licence issued under the provisions of these Bye-Laws, wherever there has been any false statement, misrepresentation of material facts in the application on which the building licence was based or if during construction it is found that the Owner has violated any of the provisions of these Building Bye-Laws or sanctioned plan or compoundable limits. Fresh sanction of building plans and occupancy certificate shall be taken from the Authority after bringing the building within the framework of Master Plan/ Zonal Regulations/Building Bye-Laws.

### **3.15.6 Qualification and Competence**

Qualification and competence of all professionals registered for preparing the various plans / drawings and details for Sanction and NOC, to supervise the execution of the various components of different types of projects and the professionals empanelled by the Authority to certify the various components of the building executed at site and to sanction licence for buildings shall be as notified by the government.

## **3.16 Execution of works at site**

### **3.16.1 Construction to be in Conformity with Bye-Laws**

**Owners' liability:** Neither the granting of the permission nor the approval of the drawing and specification, nor inspection by the Authority or the empanelled professional during erection of the building shall in any way relieve the Owner of the building or the promoter on behalf of the owner, from full responsibility for carrying out work in accordance with these Bye-Laws.

### **3.16.2 Commencement of work:**

The owner, within the validity period of the building plan sanction given, shall start the construction work at the site for which building license has been granted under the supervision of the professionals on record as per the competence given notified by the Government. The owner and the professionals on record for supervising the works at site shall be required to follow the procedure during construction work as prescribed in these bye-laws.

### **3.16.3 Appointment of professionals on record for supervision**

The owner, to whom a licence is issued, shall appoint the required number of professionals on record as notified by the Government, to supervise the construction of the various components of the building, before the commencement of works at site and also specify the principal professional on record for supervision of works who shall issue the completion certificate.

### **3.16.4 Intimation of commencement of work at site**

(1)The applicant and the principal professional on record for supervising the works executed at site (and in the absence of appointment of such professional on record, the professional on record for preparing the Architectural drawings for sanction), shall intimate the Authority within the 5<sup>th</sup> day of every month from the date of sanctioning the building licence, that the construction work has not commenced at site, along with the letter of undertaking in that the work has not commenced at site.

(2)The Applicant and the principal professional on record for supervising the works, shall intimate the Authority at least one day before the commencement of works at site.

### **3.16.5 Documents at Site:**

(1)The person to whom a licence is issued shall, during construction, display in a conspicuous place on the exterior wall / fence near the entrance gate to the site, in **Form-IX**.

(2)The details specified in **Appendix-XI** shall be maintained in the site office throughout the period of construction, until occupation certificate is issued by the Authority and shall be available for verification of the Authority or the empanelled professional appointed by the Authority for certification of works.

### **3.16.6 Preparatory works at site that need not be intimated**

The following works may be carried out in the site without intimation to the Authority

- a) Temporary fencing of the boundaries of the site with required number of gates.
- b) Temporary site office, stores, toilets, laboratory, medical facilities for workers etc.
- c) Temporary accommodation, dining, kitchen and toilets for workers
- d) Day care facilities for the children of workers, etc.
- e) Foundation and other temporary structures for erecting of plant and machinery, water tanks etc.

Such other temporary structures to facilitate the construction of the sanctioned building but not part of the sanctioned building.

### **3.16.7 Procedure during construction**

- a) The Applicant and the principal professional of record for supervision of works shall intimate the Authority in, the completion of various stages of construction prescribed in **Appendix-XII**, for certification by Empanelled professional.
- b) On receiving the intimation from the Applicant, the Authority shall inform the selected Empanelled professional to certify the stage of completion of work intimated.
- c) The Empanelled professional shall inspect the site and after checking the work completed as indicated, certify the same in **Form-X** within three days of receiving intimation.
- d) During inspection, according to the Empanelled professional, if the work executed by the Applicant is not as per the approved plans, specifications and other provisions of these Bye-laws, he shall intimate the Authority in **Form-X**, stating the defects in the works executed, along with the photos of such defective works.
- e) On receiving intimation from the Empanelled professional regarding the defects in the works executed at site, the CEO of the Authority shall issue endorsement to the Applicant in **Form-XI**, to rectify the defects, as indicated by the Empanelled professional.
- f) On receiving the endorsement from the Authority, the Applicant shall rectify the defects and intimate the Authority.
- g) According to the Applicant or the concerned professional on record for supervision of work (for which endorsement is received from the Authority), if the defects mentioned in the endorsement is incorrect, the Applicant may file objection, to the Authority, stating the correctness of the works executed, along with the photos to prove the correctness, if required.
- h) If objection is received from the Applicant, the CEO of the Authority shall conduct joint inspection along with the Applicant, the concerned professional on record and the Empanelled professional by giving notice to all, to conduct joint inspection within seven days of receiving objection.
- i) During the joint inspection, the CEO of the Authority, after hearing the views of both the parties, shall either accept or reject the objection raised by the Applicant and instruct the Applicant accordingly after making his inspection report in **Form-XII** and the Applicant shall abide by the decision of the Authority and rectify the defects mentioned in **Form-XII**, if any and intimate the Authority.
- j) On receiving the intimation of defect rectification by the Applicant, the Authority shall inform the Empanelled professional to inspect and certify the rectified work.
- k) The Empanelled professional shall inspect the site and after checking the work rectified as indicated in **Form-XII**, certify the same within three days of receiving intimation and inform the CEO.

### **3.16.8 Inability of Empanelled professional to certify the works and selection of alternate professional**

- (a)If the Empanelled professional selected by the Authority, to certify the execution of any component of the building, is unable to inspect the site within 3 days from the date of receiving the intimation, he may request for additional time of maximum 3 days. If the selected empanelled professional is unable to inspect the site and certify the works within 6 days of receiving the intimation, he may intimate the same stating the reason for his inability to inspect the site for certification.

(b)On receiving intimation from the selected empanelled professional, the Authority shall select alternate empanelled professional and inform to inspect the site and certify the work intimated by the applicant.

### **3.16.9 Action against works executed without intimation and works not rectified**

(1)Any works executed in the building without the certification of the preceding works specified in **Appendix-XII** and the works not rectified as intimated in **Form-X**, shall be liable for penalty as per the rules framed under Section 76F of KTCP Act, 1961.

(2)In such cases, the owner or the promoter, as the case may be, and the professional on record for supervising such works shall also be liable for action as per the rules framed under Section 73 and Section 76FFF of KTCP Act, 1961.

### **3.16.10 Changes to be made in the approved plans, during the execution of works:**

If the Applicant intends to make any changes / deviations in the building from the sanctioned plan, the concerned Professional on record for preparing the particular plan, which has to be altered, modified or added, shall make the necessary changes and submit to the Authority with joint validation of applicant along with an Application in **Form-I** and payment of required fees.

Any such proposed changes from the sanctioned plans shall be as per the provisions of the Master Plan and its Zonal Regulations, these Byelaws or any other relevant laws.

The proposed changes shall be executed at site only after the same is submitted to the Authority.

## **3.17 Completion of project and issuing Completion Certificate**

### **3.17.1 Issuing completion certificate**

On completion of all works at site that have been certified by the empanelled professionals as specified in **Appendix-XII**, as per the specifications and other provisions of these Bye-laws, the principal professional on record for supervising the works, shall issue Completion Certificate in **Form-XIII**, endorsed by all other concerned professionals on record for supervising various components of the building along with the certification of Structural design and safety in **Form-XV**.

### **3.17.2 Application for approval of works from other departments**

- a) The professional on record for preparing drawings and details for all the applicable NOCs from other departments, for the project, shall submit the required applications in **Form-II (any or all of a, b, c, d, e, f, g, h, i and j, as applicable)**,for approvals from other departments for the construction done at site as per the NOCs issued.
- b) On receiving the Completion Certificate and the application to various departments for approving the works executed at sites as per the NOCs issued, the Authority shall intimate all the concerned departments which have issued NOCs, along with the certification done by the empanelled professional, for issuing the prescribed certificate of approval for the construction done at site, wherever applicable.
- c) On receiving the intimation from the Authority, the concerned departments which had issued NOCs, shall issue the required certificates of approval for the construction done at site, wherever applicable, with or without site inspection.
- d) During the site inspection, according to the designated officer of the concerned department, if any of the works executed at site is not as per the conditions/specifications of the NOC issued, he shall issue endorsement through the Authority, to the applicant, along with the photographs of the defective works, to rectify the defects.
- e) On receiving the endorsement from such departments through the Authority, the applicant shall rectify the defects and intimate the concerned department.
- f) According to the Applicant or the concerned professional on record for supervision of work (for which endorsement is received from the concerned department), if the defects mentioned in the endorsement is incorrect, the Applicant may file objection, to the concerned department and the Authority, stating the correctness of the works executed, along with the photos to prove the correctness, if required.
- g) If objection is received from the Applicant, the CEO of the Authority shall conduct joint inspection along with the Applicant, the concerned professional on record, the Empanelled professional and the designated officer of the concerned Department who has issued the endorsement for defective work, by giving notice to all, to conduct joint inspection within seven days of receiving objection.
- h)During the joint inspection, the CEO of the Authority, after hearing the views of both the parties, shall either accept or reject the objection raised and instruct the Applicant accordingly after making

his inspection report in **Form-XII** and the decision of the CEO shall be final. The Applicant shall abide by the decision of the Authority and rectify the defects mentioned in **Form-XII**, if any and intimate the Authority.

- i) On receiving the intimation of defect rectification by the Applicant, the Authority shall inform the Empanelled professional to inspect and certify the rectified work.
- j) The Empanelled professional shall inspect the site and after checking the work rectified as indicated in **Form-XII**, certify the same in **Form-X** within three days of receiving intimation.
- k) The Authority shall forward the certification issued by in **Form-X** by the empanelled professional, to the concerned department and the concerned shall issue the required certificated of approval for the construction done at site, with or without site inspection.

### **3.18 Occupancy Certificate**

On receiving the completion certificate in **Form-XIII** and certificates of approval from the concerned departments or as certified by the Authority as specified in **Clause 3.17.2(h), (i) and (k)**, the Authority shall issue Occupancy Certificate in **Form-XIV** to the building constructed as per these Bye-laws.

#### **3.18.1 Occupancy or letting of the new buildings-**

No person shall occupy or allow any other person to occupy any new building or part of a new building for any purpose whatsoever until occupancy certificate to such buildings or part thereof has been granted.

#### **3.18.2 Occupancy/ Part Occupancy Certificate for Phased Project**

In such cases where a project has not been completed at one stretch but constructed in different stages, part occupancy certificate for the building otherwise complete in all respects, may be issued subject to the condition that such a part occupancy certificate would apply to an independent block/building of the sanctioned project. In case of a residential house part occupancy certificate may be issued for an independent floor. The remaining construction shall be completed in the validity period.

### **3.19 Connection to the municipal sewer / water mains**

- a) Temporary connection for water, electricity or sewer, permitted for the purpose of facilitating the construction, shall not be allowed to continue in the premises without obtaining completion/occupancy certificate.
- b) No connection to the Municipal water mains or to the Municipal sewer line with a building shall be made without the prior permission of the Authority and without obtaining occupancy certificate.
- c) In case the use is changed or unauthorized construction is made, the Authority is authorized to discontinue such services or cause discontinuance of such services.

## **CHAPTER - 4**

### **4. DEVELOPMENT REGULATIONS**

The provisions contained in Master Plan/Zonal Regulations shall apply and where these are silent on such issues or which require interpretation the norms as decidedly the Authority, shall apply. The provisions include but are not limited to the use/activity of premises, ground coverage, FAR, setbacks, open space, height and parking standards for Residential premises on plotted development, Group housing, Resettlement colonies, Slums, In-situ up gradation, Non-residential premises. The permission of uses/use activities in use premises shall be permitted in accordance with provisions of Master Plan and Zonal Regulations. The object of these regulations is to provide control for building/buildings within use premises excluding the internal arrangement, which is covered and controlled by Building Bye-Laws.

## **CHAPTER - 5**

### **5. GENERAL BUILDING REQUIREMENTS AND SERVICES**

#### **5.1 Requirements for Parts of Buildings**

##### **5.1.1 Plinth**

- 5.1.1.1** The plinth or any part of a building or outhouse shall be so located with respect to the surrounding ground level that adequate drainage of the site is assured. The height of the plinth shall be not less than 450 mm from the surrounding ground level, in case of independent houses and not less than 300mm in case of other buildings.

**5.1.1.2 Interior Courtyards and Covered Parking:** Every interior courtyard shall be raised at least 150 mm above the determining ground level and shall be satisfactorily drained.

### **5.1.2 Habitable Rooms**

#### **5.1.2.1 Height**

The clear height of all rooms for human habitation shall not be less than 2.75 m measured from the surface of the floor to the lowest point of the ceiling (bottom of slab) provided that the minimum clear headway under any beam shall not be less than 2.4 m. In the case of pitched roof, the average height of rooms shall not be less than 2.75 m. The minimum clear head room under a beam, folded plates or eaves shall be 2.4 m. In the case of air-conditioned rooms, a height of not less than 2.4mmeasured from the surface of the floor to the lowest point of air-conditioning duct or the false ceiling shall be provided.

**5.1.2.2** The requirements of **clause 5.1.2.1** shall apply to residential, business and mercantile buildings. For educational and industrial buildings, the following minimum requirements apply:

**Table 5.1 Minimum height requirement for educational and industrial buildings**

<b>Sl. No</b>	<b>Type of Occupancy</b>	<b>Ceiling height</b>
1	Educational Buildings	Ceiling height 3.6m for all regions
2	Industrial Buildings	Ceiling height 3.6m, except when air-conditioned, 3m (Factory Act 1948 and Rules therein shall govern such heights, where applicable)

#### **5.1.2.3 Size**

The area of habitable room shall not be less than 9.5Sqm, where there is only one room with a minimum width of 2.4 m. Where there are two rooms, one of these shall not be less than 9.5Sqm and the other not less than 7. 5Sq.m, with a minimum width of 2.1 m.

### **5.1.3 Kitchen**

#### **5.1.3.1 Height**

The height of a kitchen measured from the surface of the floor to the lowest point in the ceiling (bottom of slab) shall not be less than 2.75 m, except for the portion to accommodate floor trap of the upper floor.

#### **5.1.3.2 Size**

The area of a kitchen where separate dining area is provided, shall be not less than 5.0 Sq. m with a minimum width of 1.8 m. Where there is a separate store, the area of the kitchen may be reduced to 4.5 Sq. m. A kitchen, which is intended for use as a dining area also, shall have a floor area of not less than 7.5 Sq. m with a minimum width of 2.1 m.

#### **5.1.3.3 Other Requirements**

Every room to be used as kitchen shall have:

- a) unless separately provided in a pantry, means for the washing of kitchen utensils which shall lead directly or through a sink to a grated and trapped connection to the waste pipe
- b) an impermeable floor
- c) a flue, if found necessary

### **5.1.4 Bathrooms and Water-Closets**

#### **5.1.4.1 Height**

The height of a bathroom or water-closet measured from the surface of the floor to the lowest point in the ceiling (bottom of slab) shall not be less than 2.1 m.

#### **5.1.4.2 Size**

The area of a bathroom shall not be less than 1.8 Sq. m with a minimum width of 1.2m. The floor area of water-closet shall be 1.1 Sq.m with a minimum width of 0.9 m. If bath and water-closet are combined, its floor area shall not be less than 2.8 Sq.m with a minimum width of 1.2 m.

#### **5.1.4.3 Other Requirements**

Every bathroom or water-closet shall:

- a) Be so situated that at least one of its walls shall face a shaft or open space
- b) Not be directly over or under any room other than another water-closet, washing place, bath or terrace, unless it has a water-tight floor;
- c) Have the platform or seat made of water-tight non-absorbent material;
- d) be enclosed by walls or partitions and the surface of every such wall or partition shall be finished with a smooth impervious material to a height of not less than 1 m above the floor of such a room;
- e) Be provided with an impervious floor covering, sloping towards the drain with a suitable grade and not towards VERANDAH or any other room; and
- f) Have a window or ventilator, opening to a shaft or open space, of area not less than 0.3 Sq.m with side not less than 0.3 m.

#### **5.1.4.4** No room containing water closets shall be used for any purpose except as a lavatory and no such room shall open directly into any kitchen or cooking space by a door, window or other opening. Every room containing water-closet shall have a door completely closing the entrance to it.

#### **5.1.5 Loft**

##### **5.1.5.1 Height**

The minimum head-room of loft shall be 2.2 m. The maximum height of loft shall be 1.5 m.

##### **5.1.5.2 Size**

A loft in a habitable room shall not cover more than 25 percent of the area of the floor on which it is constructed and shall not interfere with the ventilation of the room under any circumstances.

#### **5.1.6 Mezzanine Floor**

##### **5.1.6.1 Height**

It shall have a minimum height of 2.2 m.

##### **5.1.6.2 Size**

The minimum size of the mezzanine floor, if it is to be used as a living room, shall not be less than 9.5 Sq.m. The aggregate area of such mezzanine floor in a building shall in no case exceed one third the plinth area of the building.

##### **5.1.6.3 Other Requirements**

A mezzanine floor may be permitted over a room or a compartment provided:

- a) it conform to the standard of living rooms as regards lighting and ventilation incase the size of mezzanine floor is 9.5 Sq.m or more
- b) It is so constructed as not to interfere under any circumstances with the ventilation of the space over and under it;
- c) Such mezzanine floor is not sub-divided into smaller compartments;
- d) Such mezzanine floor or any part of it shall not be used as a kitchen; and
- e) In no case shall a mezzanine floor be closed so as to make it liable to be converted into unventilated compartments.

#### **5.1.7 Store Room**

##### **5.1.7.1 Height**

The height of a store room shall be not less than 2.1 m.

##### **5.1.7.2 Size**

The size of a store room, where provided in a residential building, shall be not less than 3 Sq.m

#### **5.1.8 Garage**

##### **5.1.8.1 Height**

The height of a garage shall be not less than 2.4 m.

##### **5.1.8.2 Size**

The size of garages shall be as below:

- a) Private Garage - 3.0 m × 6.0 m, minimum; and
- b) Public Garage - Based on the number of vehicles parked by ECS.

### **5.1.9 Basement**

**5.1.9.1** The Authority in accordance with the land use and other provisions specified under the Zonal Regulations shall allow the construction and usage of the basement.

**5.1.9.2** The basement shall have the following requirements:

- a) Every basement shall be in every part at least 2.4 m in height from the floor to the underside of the roof slab/beam joists and at any part shall not exceed 4.5m in height;
- b) Adequate ventilation shall be provided for the basement. The ventilation requirements shall be the same as required by the particular occupancy according to byelaws. Any deficiency may be met by providing adequate mechanical ventilation in the form of blowers, exhaust fans, air-conditioning systems, etc.
- c) The maximum height at the top of the roof slab of the basement floor shall not be more than 1.2m above the average surrounding ground level;
- d) Adequate arrangements shall be made such that surface drainage does not enter the basement;
- e) The walls and floors of the basement shall be watertight and be so designed that the effects of the surrounding soil and moisture, if any, are taken into account in design and adequate damp proofing treatment is given; and
- f) The access to the basement shall be separate from the main and alternative staircase providing access and exit from higher floors.
- g) Where the staircase is continuous in the case of buildings served by more than one staircase, the same shall be of enclosed type serving as a fire separation from the basement floor and higher floors. Open ramps shall be permitted if they are constructed within the building line subject to the provision of (d). The exit requirements in basements shall comply with the provisions of these Byelaws.

### **5.1.10 Chimneys**

The chimneys shall be built at least 0.9 m above flat roofs, provided the top of the chimneys is not below the top of the adjacent parapet wall. In the case of sloping roofs, the chimney top shall not be less than 0.6 m above the ridge of the roof in which the chimney penetrates.

### **5.1.11 Parapet**

Parapet walls and handrails provided on the edges of roof terraces, balcony, verandah, etc. shall not be less than 1.0 m and not more than 1.2 m in height from the finished floor level.

**Note:**

- i. The above shall not apply where roof terrace is not accessible by a staircase.
- ii. However on terrace floor in the portion where installations like DG Set, Water Tank and other, screening parapet of a suitable height may be constructed to hide such equipment's etc. and there is no need to have uniform increase in the height of the parapet.

### **5.1.12 Boundary Wall**

The requirements of the boundary wall shall be as follows:

- a) Except with the special permission of the Authority, the maximum height of the compound wall shall be 1.5 m above the Centre line of the front street. Compound wall up to 2.4 m height may be permitted if the top 0.9 m is of open type construction of a design to be approved by the Authority.
- b) In the case of a corner plot, the boundary wall shall be constructed as specified by the ULB or the Government. and
- c) However, the provisions of (a) and (b) are not applicable to boundary walls of jails. In electric sub-stations, transformer stations, institutional buildings like sanatoria, hospitals, industrial buildings like workshops, factories and educational buildings like schools, colleges, including hostels and other uses of public utility undertakings and strategically sensitive buildings, a height up to 2.4 m may be permitted by the Authority.

### **5.1.13 Septic Tanks**

Where a septic tank is used for sewage disposal, the location, design and construction of septic tank shall conform to requirements as notified by the Government.

### **5.1.14 Office-cum-Letter Box Room**

In the case of multi-storeyed multi-family dwelling apartments constructed by existing and proposed Apartment Owners Associations, limited companies and proposed societies, an office-cum-letter box room of dimension  $3.6\text{ m} \times 3\text{ m}$  shall be provided on the ground floor. In case the number of flats is more than 20, the maximum size of the office-cum-letter box room shall be  $20\text{ m}^2$ .

In case of **Business buildings** provisions shall be made for letter boxes on the entrance floor as per the requirements of the postal department.

### **5.1.15 Meter Rooms**

For all buildings above 15 m in height and in special occupancies, like educational, assembly, institutional, industrial, storage, hazardous and mixed occupancies with any of the aforesaid occupancies having area more than  $500\text{ m}^2$  on each floor, provision shall be made for an independent and ventilated meter (service) room, as per requirements of electric (service) supply undertakings on the ground floor with direct access from outside for the purpose of termination of electric supply from the licensee's service and alternative supply cables. The door/doors provided for the service room shall have fire resistance of not less than two hours.

### **5.1.16 Roofs**

**4.1.16.1** The roof of a building shall be so designed and constructed as to effectively drain water by means of sufficient rain-water pipes of adequate size, wherever required, so arranged, jointed and fixed as to ensure that the rain-water is carried away from the building without causing dampness in any part of the walls, roof or foundations of the building or an adjacent building.

**a.** The Authority may require rain-water pipes to be connected to a drain or sewer to a covered channel formed beneath the public footpath to connect the rainwater pipe to the road gutter or in any other approved manner.

**b.** Rain-water pipes shall be affixed to the outside of the external walls of the building or in recesses or chases cut or formed in such external walls or in such other manner as may be approved by the Authority.

**c.** It is desirable to conserve rain water using suitable rain water harvesting techniques including by roof water collection. In this context, reference may be made to Part 9 'Plumbing Services, Section 1 Water Supply, Drainage and Sanitation (Including Solid Waste Management)' of NBC, 2005.

## **5.2 Other general requirements**

### **5.2.1 Swimming Pool**

1) *Definition:* A constructed pool or a tank indoor or outdoor, used for the purpose of swimming, bathing, aquatic sports or games, training, treatment (Therapy) or recreation, meant exclusively for human being, having a depth of water not less than that 60 cm. and the surface area exceeding  $23.25\text{ Sq.m}$  both for the use of public or the institution concerned.

i) *'Capacity of Pools in Relation to Bathers':* The maximum number of persons in bathing attire within the pool enclosures of the bathing area shall not exceed one person per  $20\text{ Sq ft.}$  ( $1.86\text{ Sq m.}$ ) of pool i.e. the area of the water surface.

2) *'Hand Rail':* A side handrail extending up above and returning to the horizontal surface of the pool deck curb or coping shall be provided at each side of each ladder.

3) *'Depth Markers':* Depth of water shall be clearly marked at or above the water surface on the vertical pool wall and on the edge of the deck or walk-way next to the pool, at maximum points and at the points of break between the deep and shallow portions and at intermediate increments of depth, spaced at not more than  $2.5'$  ( $7.62\text{cm}$ ) intervals. Depth markers, contrasting with background shall be on both sides of the pool.

4) *'Lighting and wiring':* Where submarine lightning is used, not less than 0.5 watts shall be employed per sq. ft. of pool area.

5) *'Area Lightning':* Where submarine lightning is employed, area lightning shall be provided for the deck areas and directed towards the deck areas and away from the pool surface so far as practicable, in a total capacity of not less than 0.6 watt per sq. ft of deck area.

Where submarine lighting is not provided and night swimming is not permitted combined pool lightning shall be provided in an amount of not less than 2 watts per sq. ft. of total area. All submarine lightning shall be individually earthed and must be water tight and damp proof.

6) *'Over Head wiring':* No electrical wiring for electrical or power shall be permitted to pass over within 20 feet of the pool enclosure.

7) 'Shallow Minimum Depth': Every swimming pool shall have a minimum depth in the shallow area of the main swimming area of not less than 0.9 m (3 feet), but not more than 1.07m. (3'-6") from the overflow level to the floor.

8) 'Shallow Areas': In a swimming pool with a diving area, the shallow area of the pool shall be defined as the portion between the shallow end and the break point between the shallow area and the diving area. The slope of the floor shall be uniform from the break point between the diving area and the shallow portion to the outside edge of the shallow portion and shall not be greater than 1 in 2 m.

9) 'Vertical Wall Depth': The pool walls shall be vertical at all points for a depth of not less than 2 ft 6' (0. 76 m.)

### **5.2.2 Means of access**

**5.2.2.1** No Building shall be erected as to deprive any other building of its means of access.

**5.2.2.2** Every person who erects a building shall not at any time erect or cause or permit to erect or re- erect any building, which in any way encroaches upon or diminishes the area set apart as means of access.

**5.2.2.3** The Means of Access prescribed in the Zonal Regulations shall be considered while sanctioning Building Licence. The portion of the plot required for widening the road to the proposed width shall be relinquished free of cost without claiming any compensation (including DR), before sanctioning Building Licence.

### **5.2.3 Staircase Requirements**

**5.2.3.1** The minimum clear width, minimum tread width and maximum riser of staircases for buildings shall be as given as below (see also Part 4 Fire and Life Safety of NBC2005).

#### **5.2.3.2 Minimum width**

**Table 5.2 The minimum width of staircase**

<b>A</b>	i) Residential buildings (dwellings) ii) Apartment buildings NOTE – For row housing with 2 storeys, the min. width shall be 0.75m	1.0m 1.2m
<b>B</b>	Hotel buildings/Lodging House	1.5m
<b>C</b>	Assembly buildings like auditoria, theatres and cinemas	2.0m
<b>D</b>	Educational building	1.5m
<b>E</b>	Institutional buildings	2.0m
<b>F</b>	All other buildings	1.5m

#### **5.2.3.3 Minimum tread**

The minimum width of tread without nosing shall be 250 mm for residential buildings. The minimum width of tread for other buildings shall be 300 mm.

#### **5.2.3.4 Maximum riser**

**5.2.3.4.1** The maximum height of riser shall be 190 mm for residential buildings and 150 mm for other buildings and these shall be limited to 12 per flight.

**5.2.3.4.2** The minimum head-room in a passage under the landing of a staircase shall be 2.1m. The minimum clear head-room in any staircase shall be 2.1 m.

### **5.2.4 Exit Requirements**

All aspects of exit requirements for corridors, doors, stair cases, ramps, etc. in respect of widths, travel distance shall be as prescribed in these Byelaws.

#### **5.2.4.1 Occupant Load**

The following occupant load shall be considered for calculating the exit requirement of the building

**Table 5.3 Occupant Load**

<b>S1. No.</b>	<b>Type of Occupancy</b>	<b>Occupant Load per 100 Sq.m of Carpet Area (in persons)</b>
1	Residential	8.0
2	Educational	25.0
3	Institutional	6.60
4	Assembly With fixed or loose seats and dance floor without seating facilities including dining rooms	166.6 66.6
5	Mercantile Street floor and sales basement Upper sale floor	33.3 16.6
6	Business and industrial	10.0
7	Storage	3.3
8	Hazardous	10.0

Note:

1. The occupant load in dormitory portions of homes for the aged, orphanages or mental hospitals etc. where sleeping accommodation is provided shall be calculated at not less than 13.3 persons per 100 Sq.m

2. In case of assembly occupancy, all rooms, toilets common areas connected to the assembly occupancy shall be included in the carpet area for calculating the occupancy load.

#### **5.2.4.2 Number and size of Exits**

The requisite number and size of various exits shall be provided, based on the occupants in each room and floor based on the occupant load, capacity of exits, travel distance and height of buildings as prescribed in these Byelaws.

At least one primary entrance to each building shall be usable by individuals in wheelchairs and shall be indicated by a sign. At least one entrance usable by individuals in wheelchairs shall be on a level that would make the elevators accessible.

#### **5.2.4.3 Arrangement of Exits**

a) Exits shall be so located so that the travel distance on the floor shall not exceed 30 m for residential, educational, institutional assembly, business, mercantile and storage occupancies, 45.0 m. for industrial occupancy and 22.5m for hazardous building. For fully sprinklered building, the travel distance may be increased by 50 percent of the above values. Whenever more than one exit is required for a floor of a building they shall be placed as remote from each other as possible. All the exits shall be accessible from the entire floor area at all floor levels, where separate fire separation walls are not provided.

b) The travel distance to an exit from the dead end of the corridor, if applicable, shall not exceed half the distance as stated above except in the case of institutional occupancy in which case it shall not exceed 6.0 m.

#### **5.2.4.4 Capacity of Exits**

The capacity of exits (staircase, ramps and doorways) indicating the number of persons that could be safely evacuated through a unit exit width of 50 cm shall be as given below:

**Table 5.4 Occupants per unit Exit width**

S1. No.	Group of Occupancy	Number of Occupants		
		Stairways	Ramps	Doors
1	Residential	25	50	75
2	Educational	25	50	75
3	Institutional	25	50	75
4	Assembly	40	50	60
5	Business	50	60	75
6	Mercantile	50	60	75
7	Industrial	50	60	75
8	Storage	50	60	75
9	Hazardous	25	30	40

#### **5.2.4.5 Minimum Width Provisions for Passageway/Corridors:**

The following minimum width provisions shall be made for each passage way/corridor.

a) Residential buildings, upto 4 dwelling units	1.00 m.
b) Apartment buildings, hostels, etc.	1.25 m.
c) Assembly buildings like auditorium theatres and cinemas	2.00 m.
d) All other buildings including hotels	1.50 m.
e) Hospital, Nursing Homes, etc.	2.40 m.

#### **5.2.5 Ramps:**

- a) The ramp to basement and parking floors shall be as prescribed in the Zonal Regulations.
- b) Ramps may also be provided in the setbacks to function as fire drive cum ramp for basements, which can be sloped considering unhindered movement of fire engine and in no case the gradient shall be less than 1:8.
- c) All structural design/safety aspects as per latest BIS Codes & NBC, 2005 shall be complied along with consideration of weight of Fire Engine & its maneuverings.
- d) The minimum width of the ramps in hospitals shall be 2.4 m for stretcher and not for vehicular movement.
- e) In this case Handrails shall be provided on both sides of the ramp.
- f) Ramps shall lead directly to outside open space at ground level or courtyards or safe place

#### **5.2.6 Doorways:**

- a. Every doorway shall open into an enclosed stairway, a horizontal exit, on a corridor or passageway providing continuous and protected means of egress.
- b. No exit doorways shall be less than 1m in width except assembly and institutional buildings where Doorway shall not be less than 2 m.
- c. Exit doorways shall open outwards, that is away from the room but shall not obstruct the travel along any exit. No door when opened shall reduce the required width of stairway or landing to less than 0.90 m Overhead or sliding door shall not be installed.
- Note: In the case of buildings where there is a central corridor, the doors of rooms shall open inwards to permit smooth flow of traffic in the corridor
- d. Exit door shall not open immediately upon a flight of stairs. A landing equal to at least, the width of the door shall be provided in the stairway at each doorway. Level of landings shall be the same as that of the floor, which it serves.
- e. Exit doorways shall be open-able from the side, which they serve without the use of a key.
- f. Revolving doors shall not to be provided as means of fire exit.
- g. Mirrors shall not be placed in exit ways or exit doors to avoid confusion regarding the direction of exit.

#### **5.2.7 Provision of exterior open spaces and height limitation around the building**

**5.2.7.1** The open spaces/setbacks, coverage, FAR, parking requirements shall be as per Zoning regulations of the Master Plan

**5.2.7.2** Every room that is intended for human habitation shall abut on an interior or exterior open space or on to a verandah open to such interior or exterior open space. In case of High rise the driveway in exterior open spaces around a building shall be of green or hard surface capable of taking load of fire engine weighing up to 45 ton.

**5.2.7.3** In case, kitchen and toilets do not about either interior or exterior open spaces, mechanical ventilation would be accepted.

#### **5.2.8 Interior Open Space for Light and Ventilation**

**5.2.8.1** The whole or part of one side of one or more rooms intended for human habitation and not abutting on either the front, rear or side open spaces shall abut on an interior open space whose minimum width in all directions shall be 3m in case of buildings not more than 15m in height, and in case of high-rise buildings it shall have mandatory mechanical ventilation in addition

#### **5.2.8.2 Sunken Courtyard:**

Sunken courtyard up to 3m in depth from the ground level as 'light well' within building envelop shall be permitted for light and ventilation for basement area.

### **5.2.8.3 Skylight:**

Skylight in interior open space (courtyard) shall be permitted subject to the fact that it may not act as a covered space on the ground floor and does not violate the maximum/minimum ground coverage rules.

### **5.2.9 Lighting and ventilation of rooms**

#### **5.2.9.1 IS Codes for lighting & ventilation requirements**

Rooms shall have, for the admission of light and air, one or more openings, such as windows and ventilators, opening directly to the external air or into an open *VERANDAH*.

Lighting and ventilation requirements of all types of buildings shall be designed and approved in accordance with the provisions of the following two IS Codes –

- i. SP 32 (1986): Hand book on Functional Requirements of Industrial Buildings(Lighting and Ventilation) [CED 12: Functional Requirements in Buildings] and
- ii. SP 41 (1987): Hand book on Functional Requirements of Buildings (Other than Industrial Buildings) [CED 12: Functional Requirements in Buildings]

Lighting loads of various spaces of –

- i. Industrial buildings shall be determined as per Clause 1, Section 1 of SP 32(1986)
- ii. Non-Industrial buildings shall be determined as per Clause 2, Part 4 of SP 41(1987)

Thermal comfort levels and design requirement of various spaces of –

- i. Industrial buildings shall be determined as per Section 2 of SP 32 (1986)
- ii. Non-Industrial buildings shall be determined as per Part 2 of SP 41 (1987)

Minimum Fresh Air requirement for –

- i. Industrial buildings shall be determined as per Clause 13 of Section 2 of SP 32(1986)
- ii. Non-Industrial buildings shall be determined as per Clause 4 of Part 3 of SP 41(1987)

#### **5.2.9.1.1 The minimum aggregate area of openings**

The minimum aggregate area of such openings, excluding doors inclusive of frames, shall be not less than one-sixth of the floor area;

#### **Notes**

1. If a window is partly fixed, the openable area shall be counted.
2. No portion of a room shall be assumed to be lighted, if it is more than 7.5 m away from the opening assumed for lighting that portion.
3. The area of openings as given in (a) to (d) above shall be increased by 25 percent in the case of a kitchen.

All habitable rooms shall have for the admission of light and air, one or more apertures, such as window, glazed door, opening directly to the external air or into an open verandah not more than 2.40 m. in width. In case light and ventilation to habitable space area are through an internal courtyard, the minimum dimensions of such courtyard shall not be less than 3.0 m. x 3.0 m. for buildings up to 12.50 m. in height. For buildings with higher heights, the minimum dimensions of the internal courtyard shall be as given in these Bye-Laws.

Where the lighting and ventilation requirements are not met through day lighting and natural ventilation, the same shall be ensured through artificial lighting and mechanical ventilation as given in part-VII building services Section-1 lighting and Ventilation of National Building Code of India published by the Bureau of Indian Standards. The latest version of the National Building Code of India shall be taken into account at the time of enforcement of the Building Bye-Laws.

#### **5.2.9.2 Ventilation Shaft**

For ventilating the spaces for water closets and bathrooms, if not opening on the front side, rear and interior open spaces, shall open on the ventilation shaft, the size, of which shall not be less than the values given below:

**Table 5.5 Size of Ventilation Shaft**

Height of Building (m)	Size of ventilation shaft (Sq.m)	Minimum size of shaft (m)
Up to 10.0	1.2	0.9
Up to 12.0	2.8	1.2
Up to 18.0	4.0	1.5
Up to 24.0	5.4	1.8
Up to 30.0	8.0	2.4
Above 30.0	9.0	3.0

**Notes:**

- i. For buildings above 30.0 m. height, mechanical ventilation system shall be installed besides the provision of minimum ventilation shaft.
- ii. For fully air-conditioned buildings the ventilation shaft need not be insisted upon, provided the air-conditioning system works in an uninterrupted manner, also, provided there is an alternative source of power supply. However, it is not mandatory in case of buildings where ventilation is mechanized

**5.3 Building Services****5.3.1 Electrical, Air conditioning, Lift & Escalator installations****5.3.1.1 Planning, design and installations of electrical, air-conditioning and lift installations**

The Planning design and installation of electrical installations, air conditioning installation of lifts and escalators can be carried out in accordance with Part-VII Building Services, section-2 electrical installation, section-3 air conditioning and heating, section-5 installation of lifts and escalators of National Building Code of India. However, deviations from National Building Code may be done as per good Engineering practices.

**5.3.1.2 Number and types of lifts**

Lift shall have to be provided for buildings with more than ground plus three floors.

The number and type of lifts to be provided in different buildings shall be as given in **Appendix-XIIIA**.

**5.3.1.3 Requirements of Electrical substation**

The requirements of electric sub-station are given in **Appendix-XIIIB**. The provision of electric sub-station shall also require approval from Electricity Board concerned.

**5.3.2 Plumbing and Sanitary Services****5.3.2.1 Planning, design, construction and installation of Water supply, drainage and sanitation and gas supply system**

The planning, design, construction and installation of water supply, drainage and sanitation and gas supply system shall be in accordance with Part-9: Plumbing Services, Section-1 Water supply, Drainage and sanitation (including Solid Waste Management) and Section-2 Gas supply of NBC, 2005.

**5.3.2.2 Norms for differently-abled within segregated toilets:**

- i. One special W.C. in a set of toilet shall be provided for the use of differently abled persons, with essential provision of wash basin near the entrance.
- ii. Minimum clear opening of the door shall be 900 mm. and the door shall swing out.
- iii. Suitable arrangement of vertical/horizontal handrails with 50 mm. clearance from wall shall be made in the toilet.
- iv. The W.C. seat shall be 500 mm. from the floor.

**5.3.2.3 Water requirement and facilities:**

Water requirement for the facility may be worked out and enough storage for  $\frac{1}{2}$  day operation is to be kept in storage. If municipal water supply is reliable, the toilet blocks may have underground sump that can store half a day requirement and overhead tanks for another half. If municipal water supply is not available, toilet block may have its own bore well and pump with no underground sump.

Alternatively, a hand tube well can be used for storing water in an elevated (not overhead) tank. To minimize the wastage of water, self-closing water taps should be used. The pans must be of Pour Flush (PF) design i.e. with a steep slope. Traps should be of a 20 mm water seal. (Use of 50 mm water seal traps will require more water for flushing.) If toilet is to be

linked to city sewer, a master trap has to be provided at the sewer connection for waste water line (excluding soil line).

**Table 5.6 Per Capita water requirement for various Occupancies /Uses**

S1. No	Type of Occupancy	Consumption per head per day (in lt.)
1	Residential a) In living units b) Hostels c) Hotels with lodging accommodation (per bed) d) Hotels (5 star and above)	135 135 180 340
2	Educational a) Day schools b) Boarding Schools	45 135
3	Institutional (Medical Hospitals) a) No. of beds not exceeding 100 b) No. of beds exceeding 100 c) Medical quarters and hostels	340 450 135
4	Assembly – Cinema theatres, auditoria, etc. (per seat accommodation)	15
5	Government or Semipublic business	45
6	Segregated toilet facilities for Visitors in Public Buildings a) Each use of toilet (including washing hands and floors) b) Flushing urinals	7 0.20
7	Mercantile (Commercial) a) Restaurants (per seat) b) Other business building	70 45
8	Industrial a) Factories where bath-rooms are to be provided b) Factories where bath-rooms are not to be provided	45 30
9	Storage (including Warehouses)	30
10	Hazardous	30
11	Intermediate Railway Stations (excluding mail and express stops)	45 (25) *
12	Junction Railway Station	70 (45) *
13	Terminal Railway Station	45
14	International and Domestic Airports	70

\*The values in parenthesis are for such station, where bathing facilities are not provided.

**Note:** The number of persons for Sl. No. 11 to 14 shall be determined by the average number of passenger handled by the station daily with due consideration given to the staff and workers likely to use the facilities.

**Table 5.7 Flushing Storage Capacities**

<b>Sl. No</b>	<b>Classification of Building</b>	<b>Storage Capacity</b>
1	For tenements having common convenience	900 lt. net per w.c. seat
2	For residential premises, other than tenement having common conveniences	270 lt. net for one w.c. seat each and 180lt. for each additional seat in the same flat.
3	For factories and workshops	900 lt. per w.c. seat and 180 lt. per urinal
4	For cinemas, public assembly hall, etc.	900 lt. per w.c. seat and 350 lt. per urinal

**Table 5.8 Domestic Storage Capacities**

<b>Sl. No.</b>	<b>No. of Floors</b>	<b>Storage Capacity</b>	<b>Remarks</b>
For premise occupied tenements with common conveniences:			
1	Ground floor	Nil	Provided down take fittings are installed
2	Floors 2,3,4,5 and upper floors	500 liters per tenement	
For premise occupied as flats or blocks			
1	Ground floor	Nil	Provided down take fittings are installed
2	Floors 2,3,4,5 and upper floors	500 liters per tenement	

**Note:** 1. If the premises are situated at a place higher than the road level in front of the premises, storage at ground level shall be provided on the same lines as on floors.

2. The above storage may be permitted to be installed provided that the total domestic storage calculated on the above basis is not less than the storage calculated on the number of down take fittings according to scale given below:

Down take taps 70 l. each

Showers 135 l. each

Bathtubs 200 l. each

**Table 5.9 Sanitation requirements for Shops and Commercial Offices**

<b>Sl. No</b>	<b>Sanitary Unit / Fittings</b>	<b>For Personnel</b>
1	Water closet	One for every 25 persons or part thereof exceeding 15(including employees and customers). For female personnel 1 for every 15 persons or part thereof exceeding 10.
2	Drinking Water Fountain	One for every 100 person with a minimum of one on each floor.
3	Wash basin	One for every 25 persons or part thereof
4	Urinals	Same as Sl.No. 3 of Table 4.14
5	Cleaners' Sink	One per floor minimum, preferably in or adjacent to sanitary rooms.

**Note:** Number of customers for the purpose of the above calculation shall be the average number of persons in the premises for a time interval of one hour during the peak period. For male-female calculation a ratio of 1:1 may be assumed.

**Table 5.10 Sanitary Requirements for Hotels**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Residential Public staff</b>	<b>For non-residential Staff</b>	
		<b>For male</b>	<b>For female</b>	
	Water Closet (W.C)	One per 8 Persons omitting occupants of the attached water closet minimum of 2 if both sexes are lodged.	1 for 1-15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 for 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41-57 persons 10 for 58-77 persons 12 for 78-100 persons Add 1 for every 6 persons or part thereof
	Ablution Taps	One in each W.C	One in each W.C	One in each W.C
	Urinals	Nil	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 40-70 persons 4 for 71-100 persons	Nil
	Wash Basins	One per 10 persons omitting each basin installed in the room / suite	1 for 15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 for 1-12 4 for 13-25 6 for 26-40 8 for 41-57
	Baths	One per 10 persons less occupants of room with bath in suite	Nil	Nil
	Cleaner's Sinks	One per 30 Bed rooms (one per floor minimum)	Nil	Nil
	Kitchen Sink	One in each Kitchen	One in each Kitchen	One in each Kitchen

**Table 5.10 (a) Sanitary Requirements for Public Rooms**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male</b>	<b>For Female</b>
1	Water Closet	One per 100 persons upto 400 persons; for over 400 add at the rate of one per 250 persons or part thereof	Two for 100 persons upto 200 persons; over 200 add at the rate of one per 100 persons or part thereof
2	Ablution Taps	One in each W.C.	One in each W.C.
3	Urinals	One for 50 persons or part thereof.	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons
4	Wash Basins	One per WC/Urinals	One per W.C
5	Kitchen Sink	One in each Kitchen	One in each Kitchen
6	Baths (showers)	One per 10 persons	
7	Cleaner's Sinks	One per 30 Bed rooms (one per floor minimum)	

**Note:** i) It may be assumed that the two-thirds of the number are males and one-third females.  
ii) One water tap with drainage arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closet and urinals.

**Table 5.11 Sanitation Requirements for Educational Occupancy**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>Boarding Institution</b>		<b>For non-residential Staff</b>	
		<b>For Boys</b>	<b>For Girls</b>	<b>For Boys</b>	<b>For Girls</b>
1	Water Closet (W.C)	One for 8 Persons Or part thereof			
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One per every 25 pupils or part there of		One per every 20 pupils or part there of	
4	Washbasins	One for every 8 pupils or part thereof	One for every 6 pupils or part thereof	One for every 60 pupils or part thereof	One for every 60 pupils or part thereof
5	Baths	One for every 8 pupils or part there of	One for every 6 pupils or part there of		
6	Drinking Water Fountains	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof	One for every 50 pupils or part thereof
7	Cleaner's Sinks	One per Floor minimum	One per Floor minimum	One per Floor minimum	One per Floor minimum

**Table 5.11(a) Sanitation Requirements for Nursery Schools**

<b>Sl.No.</b>	<b>Sanitary Unit</b>	<b>Requirement</b>
1	Water Closet	One for 15 boys, one for 6 girls
2	Ablution Taps	One in each W.C.
3	Urinals	One for 12 boys
4	Washbasins	One for every 15 pupils or part thereof
5	Baths	One bath per 40 pupils
6	Drinking Water Fountains	One for every 50 pupils or part thereof
7	Cleaner's Sinks	One per Floor minimum

**Note:**

1. One water tap with draining arrangements shall be provided for every 50 persons or part thereof, in the vicinity of water closets and urinals.
2. For teaching staff, the schedule of sanitary units to be provided shall be the same as in case of office buildings (**Table 5.10**).

**Table 5.12 Sanitation Requirements for Institutional (Medical) Occupancy – Hospital**

<b>Sl. No.</b>	<b>Sanitary Unit</b>	<b>Hospitals with indoor Patient Ward For Males &amp; females</b>	<b>Hospitals with outdoor Patient Wards For Males</b>	<b>For Females</b>
1	Toilet Suite (1WC+1Washbasin+ 1shower)	Private room upto 4 persons	For upto 4 patients	
2	Water Closet(W.C)	One for every 8 beds or part thereof	One for every 100 persons or part thereof	One for every 25 persons or part thereof
3	Ablution Taps	One in each W.C.	One in each W.C.	One in each W.C.
4	Washbasins	Two upto 30 bed; add one for every additional 30 beds; or part thereof	One for every 100 persons or part thereof	One for every 25 persons or part thereof
5	Baths with Shower	One bath with shower for every 8 beds or part thereof		
6	Bed Pan Washing sink	One for each ward		
7	<b>Cleaner' Sinks</b>	One for each ward	One per floor minimum	One per floor minimum
8	Kitchen sinks & dish Washers (where Kitchen is provided)	One for each ward		
9	Urinals	One for 30 beds (male wards)	One for every 50 persons or part thereof	
10	Drinking water fountain	One for each ward	One for 500 persons or part thereof	

**Table 5.12(a) Sanitation Requirements for Administrative Buildings**

<b>Sl. No</b>	<b>Sanitary Unit</b>	<b>For Males</b>	<b>For Females</b>
1	Toilet Suite (1WC+1Washbasin+ 1shower)	For individual doctor's/officer's rooms	
2	Water Closet (W.C)	One for every 25 persons or part thereof	Two for every 25 persons or part thereof
3	Ablution Taps	One in each W.C.	One in each W.C.
4	Wash Basins	One for every 25 persons or part thereof	One for every 25 persons or part thereof
5	Baths with Shower	One on each floor	One on each floor
6	Cleaner's Sink	One per floor minimum	One per floor minimum
7	Kitchen sinks & dish Washers (where Kitchen is provided)	One for each floor	One for each floor
8		Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 persons add at the rate of 3%; for over 200 persons add at the rate of 2.5%	
9	Drinking water fountain	One for 100 persons or part thereof	

**Table 5.13 Sanitation Requirements for Government and Public Business Occupancy and Offices**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male Personnel</b>	<b>For Female Personnel</b>
<b>1</b>	<b>Water Closet (W.C)</b>	One for 25 persons or part thereof	Two for 15 persons or part thereof
<b>2</b>	Ablution Taps	One in each W.C	One in each W.C
<b>3</b>	Urinals	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 add 3% for over 200 persons add @ 2.5%	
<b>4</b>	Wash Basins	One for every 25 persons or part thereof	One for every 25 persons or part thereof
<b>5</b>	Drinking water fountains	One for every 100 persons with a minimum of one on each floor	One for every 100 persons with a minimum of one on each floor
<b>6</b>	Cleaner's Sink	One per floor minimum, preferably in or adjacent to sanitary rooms	
<b>7</b>	<b>Executive Room / Conference Halls</b>	Toilet Suite (1 WC, 1 washbasin, and optional shower for 24 hr. usages) Unit could be common for Male/Female or separate depending on the number of user of each facility.	

**Note:** One water tap with drainage arrangements shall be provided / 50 persons or part thereof in the vicinity.

**Table 5.14 Segregated sanitation facilities for Visitors in Public Buildings.**

<b>Sl.No</b>	<b>Sanitary Unit</b>	<b>For Male Personnel</b>	<b>For Female Personnel</b>
1	Public toilet near Railway Stations (24x7) a) Water Closet (W.C) b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 300-500 c) One in each W.C	a) One for 50 users b) -- c) One in each W.C
2	Public Toilet near market place/offices (for working hours) a) Water Closet b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 200-300 users c) One in each W.C	a) One for 50 users b) -- c) One in each W.C
3	Public toilets near Public Buildings a) Water Closet b) Urinals c) Ablution Taps	a) One for 100 users b) One unit per 200-300 users c) One in each W.C	a) One for 50 users b) -- c) One in each W.C

Per Capita Volume of Water required may be referred at item 6, **Table 4.6**  
Area and sizes of seats/units may be referred at **Table 4.16**

**Table 5.15 The recommended enclosure-sizes for different facilities at visitors' toilets**

<b>Sl.No</b>	<b>Description</b>	<b>Optimum (mm)</b>	<b>Minimum (mm)</b>
1	Water Closet enclosures	900x1200	750x900
2	Urinals (divided by partition walls)	575x675	500x600

\*In case of space constraint, the minimum sizes may be adopted

**Table 5.16 The recommended areas for different facilities at visitors' toilets**

<b>SL.NO</b>	<b>Sanitary Unit</b>	<b>Dwelling with individual conveniences</b>	<b>Dwelling without individual conveniences</b>
1	Bath Room	One provided with water tap	One for every two tenement
2	Water Closet (W.C)	One	One for every two tenement
3	Sink (or Nahani) in the Floor	One	
4	Water Tap	One	One with drainage arrangement in each tenement one in common bath rooms and common water closet.

**Note:** Where only one water closet is provided in dwelling, the bath and water closet shall be separately accommodated.

**Table 5.17 Sanitation Requirements for Assembly Occupancy Buildings (Cinema, Theatres, Auditoria etc.)**

<b>SL.NO</b>	<b>Sanitary Unit</b>	<b>For Public</b>		<b>For Staff</b>	
		<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
1	Water Closet	One for 100 Persons upto 400 persons. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	One for 15 Persons. Two for 16-35 persons	Two for 1-12 persons. Four for 13-25 persons add at the rate of 1 per 6 persons or part thereof
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One for 50 persons or part thereof		Nil upto 6 persons one for 7-20 persons Two for 21-45 persons	
4	Wash Basins	One for every 200 persons or part thereof	One for every 200 persons or part thereof	One for 1-15 persons Two for 16-35	One for 1-12 persons Two for 13-25
5	Drinking Water Fountain	One per 100 persons or part thereof			
6	Cleaner's Sink	One per Floor			
7	Shower/Bathing	As per trade requirements.			

*Note: i) One water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closets and urinals.*

*ii) It may be assumed that two thirds of the number is males and one third females*

**Table 5.18 Sanitation Requirements for Assembly Buildings (Art, Galleries, Libraries and Museums)**

SL.NO	Sanitary Unit	For Public		For Staff	
		Male	Female	Male	Female
1	Water Closet (W.C)	One for 200 Persons upto 400 persons. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	Four for 100 Persons upto 200 persons. For over 200 persons, add at the rate of 1 per 50 persons or part thereof	Two for 1-12 persons. Four for 13-25 persons add at the rate of 1 per 6 persons
2	Ablution Taps	One in each W.C	One in each W.C	One in each W.C	One in each W.C
3	Urinals	One for 50 persons or part thereof		Nil upto 6 persons one for 7-20 persons Two for 21-45 persons	
4	Wash Basins	One for every 200 persons or part thereof. For over 400 persons, add at the rate of 1 per 250 persons or part thereof	One for every 200 persons or part thereof. For over 200 persons, add at the rate of 1 per 150 persons or part thereof	One for 1-15 persons Two for 16-35	One for 1-12 persons Two for 13-25 persons
5	Cleaner's Sink	One per floor, minimum			
6	Drinking Water Fountain	One per 100 persons or part thereof			
7	Shower/Bath	As per trade requirements.			

**Note:** It may be assumed that two thirds of the numbers are males and one third females.

**Table 5.19 Sanitation Requirements for Restaurants**

Sl. No.	Sanitary Unit	For Public		For Staff	
		Male	Female	Male	Female
1	Water Closet (W.C)	One per 50 seats upto 200 seats. For over 200 seats, add at the rate of 1 per 100 seats or part thereof	One per 25 seats upto 200 seats for over 200 seats, add at the rate of 1 per 50 seats or part thereof	1 for 15 Persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons	2 per - 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41- 57 persons 10 for 58-77 persons 12 for 78-100
2	Ablution Taps	One in each W.C.	One in each W.C.	One in each W.C.	One in each W.C.
3	Urinals	One for 50 persons or part thereof	--	Nil upto 6 persons one for 7-20 persons Two for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons	--

4	Cleaners Sink	<i>One for every water closet</i>
5	Kitchen Sinks & Dish Washer	<i>One per each Kitchen</i>
6	Service Sink	<i>One in the restaurant</i>

**Note:**

- i) It may be assumed that two thirds of the numbers are males and one-third females.
- ii) One water tap with draining arrangements shall be provided for every 50 persons or part thereof in the vicinity of water closets and urinal.

**Table 5.20 Sanitation Requirements for Factories**

S.I.No	Sanitary Unit	For Male Personnel	For female Personnel
1	Water Closet	1 for 15 persons 2 for 16-35 persons 3 for 36-65 persons 4 for 66-100 persons For 101 to 200 persons add at rate of 3% From over 200 persons, add at the rate of 2.5%	2 for 1-12 persons 4 for 13-25 persons 6 for 26-40 persons 8 for 41-57 persons 10 for 58-77 persons 12 for 78-100 persons. For 101 to 200 persons, add at rate of 3% From over 200 persons, add at the rate of 2%
2	Ablution Taps	One in each W.C	One in each W.C
3	Urinals	Nil upto 6 persons 1 for 7-20 persons 2 for 21-45 persons 3 for 46-70 persons 4 for 71-100 persons From 101 to 200 add 3% for over 200 persons add @ 2.5%	
4	Washing Taps with draining arrangement	One for every 25 persons or part thereof	
5	Drinking Water Fountains	One of every 100 persons with a minimum of one on each floor	
6	Baths Preferably Showers	As required for particular trade or occupation	
7	Emergency shower and eye wash fountain	1 per every shop floor per 500 person	

**Note:**

- i) For many trades of a dirty or dangerous character, more extensive provisions are required.
- ii) One water tap with draining arrangement shall be provided for every 50 persons or part thereof in the vicinity of water closet and urinal
- iii) Creche where provided shall be fitted with water closets (One for 10 persons or part thereof), wash basins (1 for 15 persons or part thereof) and drinking water tap with drinking arrangement for every 50 persons or part thereof

**Table 5.21 Sanitation Requirements for Large Stations and Airports**

S.I.No.	Place	W.C. for Males	W.C for Females	Urinals for Males Only
1	Junction Stations, Intermediate Stations and Substations	3 for first 1000 persons, add 1 for subsequent 1000 persons or part thereof	8 for first 1000 persons, add 1 for every additional 1000 persons or part thereof	4 for every 1000 persons, add 1 for every additional 1000 persons or part thereof

2	Terminals Stations and Bus Terminals	4 for first 1000 persons, and 1 for every additional 1000 persons or part thereof	10 for first 1000 person, and 1 for every additional 1000 persons or part thereof	6 for every 1000 persons, and 1 for every additional 1000 persons or part thereof
3	Domestic Airports Minimum For 200 persons For 400 persons For 600 persons For 800 persons For 1000 persons	2* 5 9 12 16 18	*4 16 30 40 52 58	1 per 40 persons or part thereof
4	International Airports For 200 persons For 600 persons For 1000 persons	6 12 18	20 40 58	1 per 40 persons or part thereof

Note:

i) Provision for wash basins, baths including shower stalls, shall be in accordance with part ix section 2-Drainage and Sanitation of National Building Code of India.

\* At least one Indian style water closet shall be provided in each toilet. Assume 60% males and 40% females in any area.

\* At least 50% of females WCs may be Indian pan and 50% EWC.

**Table 5.22 General Standard/Guidelines for Public Toilets in Public Area.**

Public Toilet	On roads and for open areas: At every 1 km, including in parks, plaza, open air theatre, swimming area, car parks, fuel stations. Toilets shall be disabled-friendly and in 50-50 ratio (M/F) Provision may be made as for Public Rooms ( <b>Table 4.10Contd)</b>
Signage	Signboards on main streets shall give directions and mention the distance to reach the nearest public convenience. Toilets shall have multi-lingual signage for the convenience of visitors. Helpline number shall be pasted on all toilets for complaints/queries
Modes	Pay and use or free. In pay and use toilets entry is allowed on payment to the attendant or by inserting coin and user gets 15 minutes.
Maintenance/ Cleaning	The toilet should have both men and women attendants. Alternatively, automatic cleaning cycle covering flush, toilet bowl, seat, hand wash basin, disinfecting of floor and complete drying after each use can be adopted, which takes 40 seconds. Public toilet shall be open 24 hours.

#### **5.3.2.4 Construction Site**

1. At construction sites, one toilet must be provided per 20 employees. In a work zone with between 21 and 199 employees, a toilet seat and one urinal must be provided for every 40 employees. For 200 or more workers, regulations call for a toilet seat and a urinal per 50 workers. The toilet must be located within 200 m or 5-minute walk.

2. Job sites that are not equipped with a sanitary sewer must, unless prohibited by local codes, provide privies, in locations where their use will not contaminate either ground or surface water. Other alternatives to a privy could be chemical toilets, re-circulating toilets, or combustion toilets.

3. Toilets should be cleaned regularly and maintained in good order, running water, must be provided along with soap and individual hand towels.

#### **5.3.2.5 Temporary Camp Toilets**

Toilet facilities shall be provided within 60 m of the, site, which shall not be closer than 15 m of dining area or kitchen. Make sure that toilet area is cleaned at least once per day, it is sanitary, adequately lighted and is employee safe.

#### **5.3.2.6 Special / Contingency Toilets**

A) For Special events like open air theatre, religious/political gatherings, mela, etc. for which there are no permanent toilet facilities, contingency toilets/PSUs shall be provided. The following considerations shall determine the number of toilets to be provided for particular event:

- i) Duration of the event
- ii) Type of crowd
- iii) Weather conditions
- iv) Whether finishing times are staggered if the event has multi-functions and the following guidelines shall be applied with minimum 50 per cent female toilets.

**Table 5.23 Contingency Toilets facilities for Special Events**

<b>S1.No.</b>	<b>Patrons</b>	<b>Toilets</b>	<b>For Males</b>		<b>For Females</b>	
1	<500	1	2	2	6	2
2	<1000	2	4	4	9	4
3	<2000	4	8	6	12	6
4	<3000	6	15	10	18	10
5	<5000	8	25	17	30	17

**B) Special Purpose Toilets:** Special toilet facilities shall be adequately provided in public projects (transport terminals/ healthcare and other public spaces) in million plus cities for the Third gender with appropriate cleanliness arrangements.

#### **5.3.2.7 General guidance for water supply arrangements**

1. For new construction: Provision shall be made for underground tank for the storage of water, having capacity at 200 l. per person with adequate pumping arrangements to supply water to upper floors. Filtered water connection will be allowed only for use of drinking and bathing needs. For other purposes i.e. flushing and gardening etc., the individual shall be required to have own arrangements of tube well water within the premises. While according sanction to Layout Plan, the Authority shall make a special mention that provision for space shall be kept for the construction of underground reservoir of adequate capacity along with booster pumping station.
2. Arrangements as given in 1 above shall also be provided in Group Housing Societies.
3. The plumbing arrangement in case of new constructions shall be made in a way that the potable water shall be used for drinking, cooking & bathing only and for rest of the uses, provision for ground water can be made with dual piping system.
4. Low capacity cistern should preferably be provided instead of normal 12.5 L capacity.
5. Provisions for sustainable methods of Water and Wastewater management and Water harvesting may be referred from **Clause 10.2** in these Bye-Laws.

## **CHAPTER - 6**

### **6. PROVISIONS FOR HIGH RISE DEVELOPMENT**

#### **6.1 General**

Buildings of height 15m and above shall be considered as high rise building.

*Note: These provisions shall be in addition to the **Chapter 3** for plan sanction procedure, general building requirements (low/high) given in **Chapter 4** of this document and structural safety given in **Chapter 6**.*

#### **6.2 Means of access**

- a. A building shall abut on a street or streets or upon spaces directly connected from the street by a hard surface approach road. The width of approach road shall be as prescribed in the Zonal Regulations.
- b. The approach road to the building and open spaces on its all sides shall be as prescribed in the Zonal regulations and wherever vehicular driveways are required to be provided, the same shall be reinforced to ensure safety of the fire equipment and capable of taking the weight of Fire engine, weighing up to 45 ton
- c) The said driveway shall be kept free of obstructions and shall be motorable.
- d. Main entrances to the premises shall be of adequate width to allow easy access to the fire engine and in no case, it shall measure less than 4.5 m. The entrance gate shall fold back against the compound wall of the premises, thus leaving the exterior access way within the plot free for movement of fire service vehicles. If archway is provided over the main entrance the height of the archway shall not be at a height less than 5m.

#### **6.3 Parking Spaces**

- a. The parking spaces shall be provided as per the provisions of Master Plan and Zonal Regulations as prevalent. The location of parking spaces shall be well ventilated.

- b. In case of high-rise buildings parking will be permitted at any/all of the following:
  - i. Basements
  - ii. Stilt floor
  - c. Stacked/ Multi-level/ Automated parking

#### **6.4 Building components**

##### **6.4.1 Doorways**

The doorway requirements shall be as prescribed in **Clause no.5.2.6**

##### **6.4.2 Revolving Doors**

Revolving door shall not be provided as a means of fire exit

##### **6.4.3 Stairways**

- a. A staircase shall not be arranged round a lift shaft.
- b. The staircase shall be ventilated to the atmosphere at each landing and a vent at the top; the vent openings shall be of 0.5 Sq.m in the external wall at the top. If the staircase cannot be ventilated, because of location or other reasons, a positive pressure 50 Pa shall be maintained inside. The mechanism for pressurizing the staircase shall operate automatically with the fire alarm. The roof of the shaft shall be 1 m above the surrounding roof. Glazing or glass bricks if used in staircase, shall have fire resistance rating of minimum 2 hour.
- c. The minimum width of staircase shall be as per **Table 4.3:**
- d. Handrails shall be provided with a minimum height of 0.9m from the center of the tread.
- e. Access to main staircase shall be gained through adequate fire resistance rating specified in **Chapter 11**. Automatic closing doors shall be placed in the enclosing walls of the staircases. It shall be a swing type door opening in the direction of the escape.
- f. No living space, store or other fire risk shall open directly into the staircase or staircases.
- g. External exit door of staircase enclosure at ground level shall open directly to the open spaces or can be reached without passing through any door other than a door provided to form a draught lobby.
- h. The exit sign with arrow indicating the way to the escape route shall be provided at a height of 0.5m from the floor level on the wall and shall be illuminated by electric light connected to corridor circuits. All exit way marking signs should be flushed with the wall and so designed that no mechanical damage shall occur to them due to moving of furniture or other heavy equipment's. Further all landings of floor shall have floor indication boards indicating the number of floor. The floor indication board shall be placed on the wall immediately facing the flight of stairs and nearest to the landing. It shall be of size not less than 0.5x 0.5m and it shall be prominently on the wall facing the staircase.
- i. In case of single staircase it shall terminate at the ground floor level and the access to the basement shall be by a separate staircase. However, the second staircase may lead to basement levels provided the same is separated at ground level by either a ventilated lobby with discharge points at two different ends or through enclosures with fire resistance rating door specified in **Chapter 11** or through a fire protected corridor.

##### **6.4.4 Lifts**

General requirements of lifts shall be as follows:

- a. All the floors shall be accessible for 24 hours by the lifts. The lifts provided in the buildings shall not be considered as a means of escape in case of emergency. In a dual line arrangement (lifts opposite to each other) the lobby may be between 1.5 times to 2.5 times the depth of one car. For in-line (single line) arrangements the lobby may be typically half of the above recommendations.
- b. Grounding switch, at ground floor level, to enable the fire service to ground the lift shall also be provided.
- c. The lift machine room shall be separate and no other machinery shall be installed there in.
- d. Walls of lift enclosures and lift lobby shall have fire rating of 2 hour; as specified in **Chapter 11**; lifts shall have a vent at the top of area not less than 0.2 Sq.m
- e. Lift car door shall have a fire resistance rating of 1 hour.
- f. Lift lobby doors in lift enclosures shall have fire resistance as specified in **Chapter 11**.
- g. Collapsible gates shall not be permitted for lifts and shall have solid doors with fire resistance of at least 1 hour.
- h. If the lift shaft and lobby is in the core of the building, a positive pressure between 25 and 30 Pa shall be maintained in the lobby and a positive pressure of 50 Pa shall be maintained in the

lift shaft. The mechanism for pressurization shall act automatically with the fire alarm; it shall be possible to operate this mechanically also.

i. Lifts if communicating with the basement, the lift lobby of the basements shall be pressurized as suggested in **clause 12.9.1(g)** and **12.9.1(h)** with self-closing door with fire resistance rating as specified in **Chapter 11**. Telephone or other communication facilities shall be provided in lift cars and to be connected to fire control room for the building.

j. Exit from the lift lobby, if located in the core of the building, shall be through a self-closing fire door of half an hour fire resistance.

k. Suitable arrangements such as providing slope in the floor of lift lobby shall be made to prevent water used during firefighting, etc., at any landing from entering the lift shafts.

l. A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the locations of the stairways. Alternate source of power supply shall be provided for all the lifts through a manually operated changeover switch.

m. For Pressurization Specifications of various building components refer NBC Chapter 4 Fire and Life Safety Clause 4.10 Pressurization of Staircases(Protected Escape Routes)

#### **6.4.5 Basements**

##### **6.4.5.1 General requirements**

Basement floors shall be permitted as prescribed in the Zonal Regulations

##### **6.4.5.2 Requirements for High rise development**

a. Each basement shall be separately ventilated. Vents with cross-sectional area (aggregate) not less than 2.5 percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of grills or breakable stall board lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and extracts may be terminated at ground level with stall board or pavement lights, but ducts to convey fresh air to the basement floor level have to be laid. Stall board and pavement lights should be in positions easily accessible to the fire brigade and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.

b. The staircase of basements shall be of enclosed type having fire resistance rating as specified in **Chapter 11**. The staircase shall be situated at the periphery of the basement to be entered at ground level only, from outside open air. The staircase shall communicate with basement through a lobby with self-closing doors with fire resistance rating as per relevant NBC code mentioned above.

c. In multi-storey basements, intake ducts may serve all basement levels, but each basement level and basement compartment shall have separate smoke outlet duct or ducts. Ducts so provided shall have the same fire resistance rating as the compartment itself. Fire rating may be taken as the required smoke extraction time for smoke extraction ducts.

d. Mechanical extractors for smoke venting system from lower basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat / smoke sensitive detectors or sprinklers, if installed, and shall have a considerably superior performance compared to the standard units. It shall also have an arrangement to start it manually.

e. Mechanical extractors shall have an internal locking arrangement, so that extractors shall continue to operate and supply fans for HVAC shall stop automatically with the actuation of fire detectors.

f. Mechanical extractors shall be designated to permit 30 air changes per hour in case of fire or distress call. However, for normal operation, air changes schedule shall be as given in Part 8, Building Services, Section 3, Air-conditioning, Heating and Mechanical Ventilation of National Building Code, 2005.

g. Mechanical extractors shall have an alternative source of supply.

h. Ventilating ducts shall be integrated with the structure and made out of brick masonry or reinforced cement concrete and when this duct crosses the transformer area or electrical switchboard, fire dampers shall be provided.

i. Use of basements for kitchens working on gas fuel shall not be permitted, unless air conditioned. The basement shall not be permitted below the ward block of a hospital/nursing home unless it is fully sprinkled. Building services such as electrical sub-stations, boiler rooms in basements shall comply with the provisions of the Indian Electricity Act / Rules. Boiler room shall be provided at the first basement along the periphery wall with fire resistance rating as specified in **Chapter 11** or shall be separated with the blast wall.

j. If cutouts are provided from basements to the upper floors or to the atmospheres, all sides' cutout openings in the basements shall be protected by sprinkler head at close spacing so as to form a water curtain in the event of a fire.

k. It is essential to make provisions for drainage of any such water on all floors to prevent or minimize water damage of the contents. The drain pipes should be provided on the external wall for drainage of water from all floors. On large area floors, several such pipes may be necessary which should be spaced 30 m apart. Care shall be taken to ensure that the construction of the drain pipe does not allow spread fire / smoke from floor to floor.

#### **6.4.6 Compartmentation**

The building shall be suitably compartmentalized so that fire/smoke remains confined to the area where fire incident has occurred and does not spread to the remaining part of the building. Compartmentation and Pressurization method shall be adopted (as per clause 4.10 of Part 4 of NBC, 2005) to protect escape routes against ingress of smoke, or toxic gases into the escape routes will be prevented. Pressurization shall be adopted for high rise buildings and building having mixed occupancy/multiplexes having covered area more than 500 Sq.m

#### **6.4.7 Ramps**

Ramps shall be provided as prescribed in **Clause 5.2.5**

#### **6.4.8 Corridors**

- a. Exit corridors and passageways shall be of width not less than the aggregate required width of exit doorways leading from them in the direction of travel to the exterior
- b. The minimum width of a corridor in a residential building shall be 1.0 m for single loaded and 1.8 m for double loaded and in all other buildings shall be 1.5m.
- c. Where stairways discharge through corridors and passageways, the height of corridors and passageways shall be not less than 2.4 m.
- d. All means of exit including staircases lifts lobbies and corridors shall be ventilated.

#### **6.4.9 Glass Façade/ Service Ducts/Shfts/ Refuge Area/ Vents**

- a. An Opening to the glass façade of min. width 1.5 m and height 1.5m shall be provided at every floor at a level of 1.2 m from the flooring facing compulsory open space as well as on road side. Construction that complies with the fire rating of the horizontal segregation and has any gap packed with a noncombustible material to withstand thermal expansion and structural movement of the walling without the loss of seal against fire and smoke.
- b. Mechanism of Opening: The openable glass panel shall be either left or right shall have manual opening mechanism from inside as well as outside. Such openable panels shall be marked conspicuously so as to easily identify the openable panel from outside.
- c. Fire seal to be provided at every floor level between the external glazing and building structure.
- d. The glazing used for the façade shall be of toughened (tempered) safety glass as per I.S.2553.
- e. To avoid fire propagation vertically from one floor to another floor, a continuous glass I must be separated internally by a smoke/ fire seal which is of noncombustible material having a fire resistance rating of not less than 2 hours.
- f. Service ducts and shafts shall be enclosed by walls and doors with fire resistance rating (Refer **Clause 12.7.1** of Chapter 12). All such ducts/shafts shall be properly sealed and stopped fire ingress at all floor levels.
- g. A vent opening at the top of the service shaft shall be provided having an area between one-fourth and one-half of the area of the shaft.
- h. The openable vent of minimum 2.5% of the floor area shall be provided. The openable vent can be pop out type or bottom hinged provided with fusible link opening mechanism and shall also be integrated with automatic Smoke Detection System.
- or
- i) Alternate vertical glass panels of the façade shall be openable type with the mechanism mentioned above in order to ventilate the smoke.
- ii) Refuge areas covered with the glass façade shall have all the panels fully openable (either left or right hinged) both from inside as well as outside. Glass quality and Practice of use of Glass in buildings shall have to be in conformity with the **BIS codes** as given in **Table 5.1** below:

<b>IS Code</b>	<b>Specifications</b>
2553(Part 1):1990	Specification for safety glass: Part 1 General purpose ( <i>third revision</i> )
2835:1987	Specification for flat transparent sheet glass ( <i>third revision</i> )
438:1994	Specification for silvered glass mirrors for general purpose( <i>second revision</i> )
5437:1994	Specification for figured rolled and wired glass ( <i>first revision</i> ).
14900:2000	Specification for transparent float glass.
16231 Part 1	General methodology for selection
16231 Part 2	Energy and Light
16231 Part 3	Fire and Loading
16231 Part 4	Safety related to Human Impact

## **6.5 Building Services**

### **6.5.1 Staircase and Corridor Lighting**

- a. The staircase and corridor lighting shall be on separate service and shall be independently connected so as it could be operated by one switch installation on the ground floor, easily accessible to firefighting staff at any time irrespective of the position of the individual control of the light points, if any.
- b. Staircase and corridor lighting shall also be connected to alternate supply from parallel high-tension supply or to the supply from the stand-by generator.
- c. Emergency lights shall be provided in staircase and corridor/ passageway, horizontal exits, refuge area; and all wires and other accessories used for emergency light shall have fire retardant property.

### **6.5.2 Electrical Services**

- a. The electric distribution cables/wiring shall be laid in separate duct the duct shall be sealed at every floor with non-combustible materials having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.
- b. Water mains, telephone cables, intercom cables, gas pipes or any other service line shall not be laid in the duct for electric cables. Use of bus ducts/solid rising mains instead of cables is preferred.
- c. The provision of dedicated telecommunication ducts for all new building proposals is mandatory for conveyance of telecommunication and other data cables.
- d. Separate circuits for water pumps lifts, staircases and corridor lighting and blowers for pressurizing system shall be provided directly from the main switchgear panel (for detailed specifications refer NBC 2005, Chapter 4 Fire and Life Safety).

### **6.5.3 Alternate Source of Electric Supply**

A stand-by electric generator shall be installed to supply power to staircase and corridor lighting circuits, fire lifts, the stand-by fire pumps, pressurization fans and blowers, smoke extraction and damper system in case of failure of normal electric supply. The generator shall be capable of taking starting current of all the machines and circuits stated above simultaneously. If the stand-by pump is driven by diesel engine, the generator supply need not be connected to the stand-by pump.

### **6.5.4 Air-conditioning**

Air-conditioning shall conform to the following:

- a. Escape routes like staircases, common corridors, lift lobbies, etc. shall not be used as return air passage.
- b. The ducting shall be constructed of substantial gauge metal in accordance with good practice.
- c. Wherever the ducts pass through fire walls or floors, the opening around the ducts shall be sealed with materials having fire resistance rating of the compartment.
- d. Where duct crosses a compartment which is fire rated, the ducts shall be fire rated for same fire rating. Further depending on services passing around the duct work, which may get affected in case of fire temperature rising, the ducts shall be insulated.
- e. Metallic ducts shall be used even for the return air instead of space above the false ceiling.
- f. Where plenum is used for return air passage, ceiling and its fixtures shall be of noncombustible material.
- g. The materials used for insulating the duct system (inside or outside) shall be of noncombustible material; glass wool shall not be wrapped or secured by any material of combustible nature.

- h. Air ducts serving main floor areas, corridors, etc. shall not pass through the staircase enclosure.
- i. The air-handling units shall be separate for each floor and air ducts for every floor shall be separated and in no way inter-connected with the ducting of any other floor.
- j. If the air-handling unit serves more than one floor, the recommendations given above shall be compiled with in addition to the conditions given below:
  - i. Proper arrangements by way of automatic fire dampers working on smoke detector / or fusible link for isolating all ducting at every floor from the main riser shall be made.
  - ii. When the automatic fire alarm operates, the respective air-handling units of the air conditioning system shall automatically be switched off.
  - iii. The vertical shaft for treated fresh air shall be of masonry construction.
  - iv. The air filters of the air-handling units shall be of non-combustible materials or fire rated (Refer **Clause 12.7.1** of Chapter 12)
  - v. The air-handling unit room shall not be used for storage of any combustible materials.
  - vi. Inspection panels shall be provided in the main trunk line to facilitate the cleaning of ducts of accumulated dust and to obtain access for maintenance of fire dampers.
  - vii. No combustible material shall be fixed nearer than 150 mm to any duct unless such duct is properly enclosed and protected with non-combustible material (glass wool or spyglass with neoprene facing enclosed and wrapped with aluminum sheeting) at least 3.2 mm thick and which would not readily conduct heat.

#### **6.5.5 Transformers**

- a. If transformers are housed in the building below the ground level it shall be necessarily in the first basement in separate fire resistance room of 4 hours rating. Transformer shall be dry type and shall be kept in an enclosure with walls, doors and cut-outs having fire resistance rating of 4 hour. The room shall necessarily be at the periphery of the basement having separate and direct access from open area at ground floor through a fire escape staircase. The entrance to the room shall be provided with a steel door of 2 hours fire rating. A curb of a suitable height shall be provided at the entrance in order to prevent the flow of oil from ruptured, transformer into other parts of the basement. The switchgears shall be housed in a separate room separated from the transformer bays by a fire-resisting wall with fire resistance not less than 4 hours.
- b. The transformer shall be protected by an automatic foam sprinkler system. When housed at ground floor level it/they shall be cut-off from the other portion of premises by Fire Resisting Walls of 4 hours rating.
- c. A tank of RCC construction of adequate capacity shall be provided at lower basement level, to collect the oil from the catch pit in case of emergency. The pipe connecting the catch-pit to the tank shall be of non-combustible construction and shall be provided with a flame-arrester.
- d. The electric sub-station shall be located in a separate building in accordance to I. E. Rules 68(I) and 64(I) (a).
- e. If this is not possible due to site conditions, the sub-station shall be located on the ground floor. As far as possible sub-station shall not be installed in a basement, for such situations special provisions like mechanical ventilation, wherever required, cable ducting, cable trays, top/bottom entry of HV/LV cable, hooks on Transformer(s) & HV panels, adequate fire detection and firefighting arrangement, adequate drainage, effective measures to prevent flooding etc. shall be provided. Adequate precautions shall also be taken for water proofing to prevent seepage of water. A ramp shall also be provided with a slope, not steeper than 1 in 7, for easy movement of equipment's to and from sub-station.
- f. Fire regulations – The installations shall be carried out in conformity with the local regulations and rules there under wherever they are in force. At other places NBC guidelines shall be followed.

#### **6.5.6 Gas supply**

- a. Town Gas / L.P. Gas Supply Pipes – Where gas pipes are run in buildings, the same shall be run in separate shafts exclusively for this purpose and these shall be on external walls, away from the staircases. There shall be no interconnection of this shaft with the rest of the floors.
- b. LPG distribution pipes shall always be below the false ceiling. The length of these pipes shall be as short as possible. In the case of kitchen cooking range area, apart from providing hood, covering the entire cooking range, the exhaust system should be designed to take care of 30 cum per minute per Sq.m of hood protected area. It should have grease filters using metallic grill to trip oil vapors escaping into the fume hood.

*Note: For detailed information on gas pipe installations, reference may be made to Para.9 'Plumbing Services, Section 3 Gas Supply', of National Building Code of India.*

c. For large/commercial kitchens all wiring in fume hoods shall be of fiberglass insulation. Thermal detectors shall be installed into fume hoods of large kitchens for hotels, hospitals and similar areas located in high rise buildings. Arrangements shall be made for automatic tripping of the exhaust fan in case of fire.

d. If LPG is used, the same shall be shut off. The voltage shall be of 24 V or 100V DC operated with the external rectifier. The valve shall be of the hand re-set type and shall be located in an area segregated from cooking ranges. Valves shall be easily accessible. The hood shall have manual facility for steam or carbon dioxide gas injection, depending on duty condition; and Gas meters shall be housed in a suitably constructed metal cupboard located in a well-ventilated space, keeping in view the fact that LPG is heavier than air and town gas is lighter than air.

#### **6.5.7 Boiler Room**

Further, the following additional aspects may be taken into account in the location of Boiler/Boiler Room:

- a. The boiler shall not be allowed in sub-basement but be allowed in the first basements away from the escape routes.
- b. The boilers shall be installed in a fire resisting room of 4 hours fire resistance rating, and this room shall be situated on the periphery of the basement. Catch pit shall be provided at the low level. Entry to this room may be provided with a composite door of two-hour fire resistance.
- c. The boiler room shall be provided with fresh air inlets and smoke exhausts directly to the atmosphere.
- d. Foam inlets shall be provided on the external walls of the building at the ground floor level to enable the fire services to use foam in case of fire.
- e. The furnace oil tank for the boiler, if located in the adjoining room shall be separated by fire resisting wall of 4-hour rating. Entry to this room shall be provided with a composite door of 2-hour fire resistance. A curb of suitable height shall be provided at the entrance in order to prevent the flow of oil into the boiler room in case of tank rupture.

#### **6.5.8 HeliPad**

Buildings above 200 m in height, helipad may be provided.

#### **6.5.9 Disaster Management / Fire Safety**

Refer **Chapter 11** of this document.

#### **6.5.10 Sustainable Environment and Buildings**

Refer **Chapter 10** of this document

#### **6.5.11 Structural Safety**

As per provisions made for Structural Safety in **Chapter 6**

### **CHAPTER - 7**

## **7. PROVISIONS FOR STRUCTURAL SAFETY**

#### **7.1 Structural design and safety**

For any building under the jurisdiction of these bye-laws structural design/retrofitting shall only be carried out by a registered Structural Engineer on Record (SER) or Structural Design Agency on Record (SDAR). Proof checking of various designs/ reports shall be carried out by competent authority as per **Table 7.1** wherever applicable.

#### **7.1.1 Additional provisions for natural hazard prone areas**

Generally, the structural design of foundations, elements of masonry, timber, plain concrete, reinforced concrete, pre-stressed concrete and structural steel shall conform to the provisions of Part 6: Structural D-sign –

Section- 1 Loads, Forces and Effects

Section- 2 Soils and Foundations,

Section- 3 Timber and Bamboo,

Section- 4 Masonry,

Section- 5 Concrete &

Section- 6 Steel

Section- 7 Prefabrication Systems, Building and Mixed /Composite Construction of National Building Code of India (NBC), taking into consideration the Indian Standards as given below.

### **For General Structural Safety**

- 1) IS: 456:2000 'Code of Practice for Plain and Reinforced Concrete'.
- 2) IS: 800-2007 'Code of Practice for General Construction in Steel'.
- 3) IS: 801-1975 'Code of Practice for Use of Cold Formal Light Gauge Steel Structural Members in General Building Construction'
- 4) IS 875 (Part 2):1987 Design loads (other than earthquake) for buildings and structures Part 2 Imposed Loads.
- 5) IS 875 (Part 3):1987 Design loads (other than earthquake) for buildings and structures Part 3 Wind Loads.
- 6) IS 875 (Part 4):1987 Design loads (other than earthquake) for buildings and structures Part 4 Snow Loads.
- 7) IS 875 (Part 5):1987 Design loads (other than earthquake) for buildings and structures Part 5 special loads and load combination.
- 8) IS: 883:1994 'Code of Practice for Design of Structural Timber in Building.'
- 9) IS: 1904:1986 (R 2005) 'Code of Practice for Structural Safety of Buildings: Foundation'
- 10) IS 1905:1987 'Code of Practice for Structural Safety of Buildings: Masonry Walls.'
- 11) IS 2911(Part 1): Section 1: 2010 'Code of Practice for Design and Construction of Pile Foundation Section 1
  - Part 1: Section 2 Bored Cast-in-situ Piles
  - Part 1: Section 3 Driven Precast Concrete Piles
  - Part 1: Section 4 Bored Precast Concrete Piles
  - Part 2: Timber Piles
  - Part 3: Under Reamed Piles
  - Part 4: Load Test on Piles
- For Cyclone/Wind Storm Protection
  - 12) IS 875 (3):1987 'Code of Practice for Design Loads (other than Earthquake) for Buildings and Structures, Part 3, Wind Loads'
  - 13) Guidelines (Based on IS 875 (3)-1987) for improving the Cyclonic Resistance of Low rise houses and other building.

### **For Earthquake Protection**

- 14) IS: 1893 (Part 1)-2002 'Criteria for Earthquake Resistant Design of Structures(Fifth Revision)'
- 15) IS:13920-1993 'Ductile Detailing of reinforced Concrete structures subjected to Seismic Forces-Code of Practice'
- 16) IS:4326-2013 'Earthquake Resistant Design and construction of buildings code of practice(second revision)'
- 17) IS:13828-1993 'Improving earthquake resistance of low strength masonry buildings-guidelines'
- 18) IS:13827:1993 'Improving Earthquake Resistance of Earthen Buildings-Guidelines'
- 19) IS:13935-2009 'Seismic Evaluation, Repair and Seismic Strengthening of Buildings -Guidelines'

### **For Protection of Landslide Hazard**

- 20) IS 14458 (Part 1): 1998 Guidelines for retaining wall for hill area: Part 1 Selection of type of wall.
- 21) IS 14458 (Part 2): 1997 Guidelines for retaining wall for hill area: Part 2 Design of retaining/breast walls
- 22) IS 14458 (Part 3): 1998 Guidelines for retaining wall for hill area: Part 3 Construction of dry stone walls
- 23) IS 14496 (Part 2): 1998 Guidelines for preparation of landslide – Hazardzonation maps in mountainous terrains: Part 2 Macro-zonation.

Note: Whenever an Indian Standard including those referred in the National Building Code or the National Building Code is referred, the latest revision of the same shall be followed except specific criteria, if any, mentioned above against that code.

#### **7.1.2 Structural Design Basis Report (SDBR)**

In compliance of the design with the above Indian Standard, the Structural Engineer on Record will submit a structural design basis report in the Proforma attached herewith covering the essential safety requirements specified in the Standard.

The 'Structural Design Basis Report (SDBR)' consists of four parts

MHA Expert Committee Report)

Part 1: General Information/ Data

Part 2: Load Bearing Masonry Buildings

Part 3: Reinforced Concrete Buildings

Part 4: Steel Buildings

i) Drawings and Documents to be submitted for approval of appropriate authorities shall include SDBR as detailed below:

Part 1: Completed

Part 2: (if applicable) – completed

Part 3: (if applicable) – undertaking that completed Part 3 will be submitted before commencement of construction.

Part 4: (if applicable) – undertaking that completed Part 4 will be submitted before commencement of construction.

ii) SDBR as detailed below shall be submitted to the appropriate authority as soon as design of foundation is completed, but not later than one month prior to commencement of construction.

Part 1: Completed

Part-2, Part-3 or Part-4: (if applicable) Completed

### **7.1.3 Seismic strengthening/retrofitting**

Prior to seismic strengthening/retrofitting of any existing structure, evaluation of the existing structure as regards structural vulnerability in the specified wind/seismic hazard zone shall be carried out by a RSE/RSDA. If as per the evaluation of the RSE/RSDA the seismic resistance is assessed to be less than the specified minimum seismic resistance as given in the note below, action will be initiated to carry out the upgrading of the seismic resistance of the building as per applicable standard guidelines.

Note:

1. For masonry buildings reference shall be made to IS 4326 and IS 13935

2. For concrete buildings and structures reference shall be made to IS15988: 2013 Seismic evaluation and strengthening of existing RCC buildings.

### **7.1.4 Buildings with Soft Storey**

In case buildings with a flexible storeys, such as the ground storey consisting of open spaces for parking that is 'Stilt buildings' or any other storey with open halls, special arrangements are to be made to increase the lateral strength and stiffness of the soft/open storey such as Steel bracing / Shear walls / Brick infill's between columns. Dynamic analysis of building is to be carried out including the strength and stiffness effects of infill's and inelastic deformations in the members, particularly, those in the soft storey, and the structural members are to be designed accordingly.

Alternatively, the following design criteria are to be adopted after carrying out the earthquake analysis, neglecting the effect of infill walls in other storeys:

- The columns and beams of the soft storey shall be designed for 2.5 times the storey shears and moments, calculated under seismic loads specified in the other relevant clauses; or,
- Besides the columns designed and detailed for the calculated storey shears and moments, shear walls shall be placed symmetrically in both directions of the building as far away from the Centre of the building as feasible; to be designed exclusively for 1.5 times the lateral storey shear force calculated as before. For details of design and provisions, IS 1893, Part 1 shall be referred.

### **7.1.5 Review of structural design**

i. The Competent Authority shall create a Structural Design Review Panel(SDRP) consisting of senior SER's and SDAR's whose task will be to review and certify the design prepared by SER or SDAR whenever referred by the competent authority.

ii. The Reviewing Agency shall submit addendum to the certificate or a new certificate in case of subsequent changes in structural design.

iii. Table-6.1 gives requirements of SDRP for different seismic zones namely III,IV and V and for structures of different complexities.

iv. In seismic Zone II, buildings & structures greater than 40m in height will require proof checking by SDRP as per detail at Sl. no.3 of **Table 7.1**

**Table 7.1 Proof Checking Requirements for Structural Design**

<b>Sl.No</b>	<b>Type of Structure</b>	<b>Submission from SER or SDAR</b>	<b>To be Proof Checked</b>
1.	Load Bearing Buildings up to three storeys	SDBR*	Not to be checked
2.	Buildings up to seven storeys (R.C.C/Steel framed structure)	SDBR	To be checked
		Preliminary design	To be checked

3.	Building greater than seven storeys (R.C.C/Steel framed structure)	SDBR	To be checked
		Preliminary design	To be checked
		Detailed structural design and structural drawing	To be checked
4.	Non-Residential Buildings	SDBR	To be checked
		Preliminary design	To be checked
		Detailed structural design and structural drawing	To be checked

\* SDBR – Structural Design Basis Report

#### Notes:

1. Table 4.1 may be referred for occupant load/live loads for different building types.
2. At the preliminary proposal stage of a project, the objective is to undertake feasibility study/comparison of a number of possible alternatives of structural schemes and determine the most cost effective one, detailed structural calculations are not necessary for each alternative scheme. However, it is necessary to determine the member sizes and reinforcement content in order to determine the cost. By making conservative assumptions it is possible to derive simplified calculations for both analysis and design. **This is called 'Preliminary or approximate analysis, and design'.**

After the most cost effective scheme is selected and signed-off by the Client, the detailed calculations are performed on the selected scheme to determine the precise structural members and composition (size, dimension and stress behavior), and this is called the '**Detailed structural design**'.

In the aforesaid, the design of structural members is typically assumed to account for all the stress loads identified from section xx to be applicable in the given project.

3. Special structure means large span structures such as stadium, assembly halls, or tall structures such as water tanks, TV tower, chimney, etc.

It will be seen from the **Table 7.1** above that there is a wide range of structure typology, and the requirement by the Competent Authority for third party verification will depend on the type of structure.

#### 7.1.6 Certification regarding structural safety in design

Structural Engineer on Record (SER) or Structural Design Agency on Record (SDAR) shall give a certificate of structural safety of design as per proforma given in **Form-XV** (of the MHA Expert Committee Report) at the time of completion (as per **Clause 3.17**)

#### 7.1.7 Constructional safety

##### 7.1.7.1 Supervision

All construction except load bearing buildings up to 3 storeys shall be carried out under supervision of the Construction Engineer on Record (CER) or Construction Management Agency on Record (CMAR) for various seismic zones.

##### 7.1.7.2 Certification of structural safety in construction

CER/ CMAR shall give a certificate of structural safety of construction as per proforma given in **Form-XV** (of the MHA Expert Committee Report) at the time of completion (as per **Clause 3.17**).

#### 7.1.8 Quality control and inspection

All material and workmanship shall be of good quality conforming generally to accepted standards of Public Works Department and Indian standard specification and codes as included in Part-V Building Materials and Part-VII Construction practices and safety of National Building Code of India.

##### 7.1.8.1 Inspection

All the construction for high-rise buildings higher than seven storeys, public buildings and special structures shall be carried out under quality inspection program prepared and implemented under the Quality Auditor on Record (QAR) or Quality Auditor Agency on Record (QAAR) in seismic zones IV &V (as notified by the Government).

##### 7.1.8.2 Certification of safety in quality of construction

Quality Auditor on Record (QAR) or Quality Auditor Agency on Record (QAAR) shall give a certificate of quality control as per proforma given in **Form-XVIII** (as notified by the Government).

Quality Inspection Program to be carried on the site shall be worked out by QAR/QAAR in consultation with the owner, builder, CER / CMAR.

Note: **Clause 7.1.7 and 7.1.8** shall not be applicable for Government buildings that are designed and constructed under the supervision of in-house architects/engineers.

### **7.1.9 Control of signage & outdoor display structures, cell phone towers and telephone Towers.**

Following provisions shall apply for telecommunication infrastructure

a) Location: The Telecommunication Infrastructure shall be either placed on the building roof tops or on the ground or open space within the premises subject to other regulation.

b) Type of structure

i. Steel fabricated tower or antennae on M.S. pole

ii. Pre-fabricated shelters of fiber glass or P.V.C. on the building roof top /terrace for equipment.

iii. Masonry Structure/ Shelter on the ground for equipment.

iv. D.G. set with sound proof cover to reduce the noise level.

c) Requirement:

i. Every applicant has to obtain/ procure the necessary permission from the 'Standing Advisory Committee on Radio Frequency Allocation' (SACFA) issued by Ministry of Telecommunications.

ii. Every applicant will have to produce the structural safety & stability certificate for the tower as well as the building from the Structural Engineer on Record(SER) which shall be the liability of both owner and SER.

iii. Applicant has to produce / submit plans of structure to be erected.

d) Projection: No Pager and/or Telephone Tower shall project beyond the existing building line of the building on which it is erected in any direction.

### **7.2 Inspection**

The general requirement for inspection and certification of the development shall be as prescribed in **Clause no.3.15**

#### **7.2.1 Maintenance of Buildings**

In case of building older than fifty years, it shall be the duty of the owner of a building, to get his building inspected by a Registered Structural Engineer (RSE) within a year from the date of coming into force of these regulations. The Structural Inspection Report (Form No.16, of the MHA Expert Committee Report) shall be produced by the Owner to the Appropriate Authority. If any action, for ensuring the structural safety and stability of the building is to be taken, as recommended by SER, it shall be completed within five years. For other buildings, the owner shall get his building inspected after the age of building has crossed forty years. The procedure shall be followed as per above regulation.

#### **7.2.2 Protective Measures in Natural Hazard Prone areas**

In natural hazard, prone areas identified under the land use Zonal Regulations, structures buildings and installations which cannot be avoided, protective measures for such construction/development should be properly safeguarded based on the suggestion given in the Report of the MHA Expert Committee - Volume I.

#### **7.2.3 Registration of Professionals**

Presently, the legislation for the profession of architecture is applicable in the country in the form of Architects Act 1972, an Act of the Parliament of India. Accordingly, the qualifications, competence and service conditions followed in the profession of architecture are in accordance with the provisions of the said Act and the rules made there under. For other professions and professionals like engineers, structural engineers, landscape architects, urban designers, building supervisors, electrical engineers, developers/promoters there is no legislative frame available/applicable. Therefore, for appropriate qualifications, competence and responsibilities of professional involved in different types of development proposals shall be applicable as notified by the Government: Qualifications and Competence of Professionals and methods of determination of professional fees are suggested in **clause 7.2.4**.

#### **7.2.4 Professional fees for SER/SDAR and CER/CMAR**

Selection of professionals and determination of professional charges shall be done by the Authority, considering the following:

- i. Structural safety of a building is the responsibility of the 'SER/SDAR' for proper design and the 'CER/CMAR' for proper construction, therefore it is imperative that selection and appointment of these professionals is made after verification of their antecedents.
- ii. The fees to be paid to SER/SDAR for structural design may be specified keeping in view the size and complexity of the project.
- iii. Similarly, fees for construction management to CER/CMAR may be specified keeping in view the size and complexity of the project and the duration for which construction management services have to be provided on the basis of the total cost of the project.
- iv. Proof checking: Fees for Proof checking where carried out may vary based on the cost of the structural items enumerated in (ii) above.

#### **7.2.5 Appointment of Professionals**

The Owner/Developer shall appoint Town Planner on Record (TPR), Architect on Record (AR), Engineer on Record (ER), Structural Engineer on Record (SER), Structural Design Agency on Record (SDAR), Geotechnical Engineer on Record (GER), Construction Engineer on Record (CER), (CMAR), and Quality Auditor on Record (QAR) and Quality Audit Agency on Record (QAAR) as required. Details of qualification and requirement of registration shall be as notified by the Government & **Appendix-I**.

Proper written agreement(s), in standard format(s), shall be entered upon with such professional(s) engaged.

#### **7.3 Alternative Materials, Methods of Design and Construction and Tests**

The provision of the Bye-Laws are not intended to prevent the use of any material or method of design or construction not specifically prescribed by the bye-law provided any such alternative has been approved. The building materials approved by B.I.S. or any statutory body will form part of the approved building material and technology as part of the Bye-Laws.

The Authority shall promote and encourage use of Pre-fabricated factory made building components for medium to large scale projects that have significant impact. The use of ready mix concrete (RMC) shall also be encouraged for in-situ concrete constructions.

**Clause 11.2.6** may be referred for further aspects of Sustainability and incentivized promotion of alternative materials, methods in construction.

### **CHAPTER - 8**

#### **8. LAND USE ZONES**

In order to promote public health, safety and the general social welfare of the community, it is necessary to apply control and reasonable limitation on the development of land and buildings. This is to ensure that most appropriate, economical and healthy development of the Town/City takes place in accordance with the land use plan, and its continued maintenance over the years. For this purpose, the city is divided into number of use zones, such as residential, commercial, industrial, public and semi-public etc. Each zone has its own regulations, as the same set of regulations cannot be applied to the entire Town. Zonal Regulations protects residential areas from the harmful invasions of

commercial and industrial uses and at the same time promotes the orderly development of industrial and commercial areas, by suitable regulations on spacing of buildings to provide adequate light, air, protection from fire, etc. It prevents overcrowding in buildings and on land to ensure adequate facilities and services.

Zonal is not retrospective. It does not prohibit the uses of land and buildings that are lawfully established prior to the coming into effect of these Zonal Regulations.

If these uses are contrary to the newly proposed uses, they are termed non-conforming uses and are gradually eliminated over years without inflicting unreasonable hardship upon the property owner.

The Zonal Regulations and its enforcement ensure proper land use and development and form an integral part of the Master Plan. It also ensures solutions to problems of development under local conditions.

The Master Plan along with the Zonal Regulations approved under sub section (3) of section 13 of the Karnataka Town and Country Planning Act, 1961 approved by the Government, time to time shall be applicable.

## **CHAPTER - 9**

### **9. PROVISIONS FOR DIFFERENTLY-ABLED, ELDERLY PERSONS AND CHILDREN**

#### **9.1 Applicability**

These regulations shall be applicable to all buildings and facilities used by the public such as educational, institutional, assembly, commercial, business, mercantile buildings and group housing constructed on plots having an area of more than 2000 Sq.m. It shall not apply to private residential buildings.

#### **9.2 Guidelines and Provisions**

1. *Provisions in the following guidelines shall apply:*
2. ‘*Guidelines and Space Standards for Barrier Free Built Environment for Disabled and Elderly Persons*’, (1998), Central Public Works Department, Goo
3. ‘*Manual on Barrier Free Environment*’, (2002), O/o the Chief Commissioner for Persons with Disabilities, Ministry of Urban Development, Goo.
4. ‘*National Building Code*’, (2005), Bureau of Indian Standards,
5. ‘*National Policy for Persons with Disabilities*’, (2006), Ministry of Social Justice and Empowerment, Goo.
6. ‘*Harmonized Guidelines and Space Standards for Barrier Free Built Environment for Persons with Disabilities and Elderly Persons*’, (Draft 2014), Ministry of urban Development, GoI.

#### **9.3 Types of buildings to adopt barrier free guidelines as notified by the State Government**

##### **9.3.1 Buildings to be designed for Ambulant Disabled People**

Higher Secondary School, Conference Hall, Dance Halls, Youth Centers, Youth Clubs, Sport Centers, Sport Pavilions, Boat Club Houses, Ice Rinks, Bowling Centers, Swimming Pools, Police Stations, Law Courts, Courts Houses, Sport Stadiums, Theatres, Concert Halls, Cinemas, Auditoria, Small Offices (the maximum plinth area 1400 Sq.m) Snack Bars, Cafes and banqueting rooms (for capacity above 50 dinners).

**Note:**

- a. In sport stadiums provisions shall be made for non-ambulant spectators (small wheel chair)
- b. @ 1:1000 up to 10,000 spectators and @ 1:2000 for spectators above 10,000.
- c. In Theatres, Concert Halls, Cinemas and Auditoria provisions shall be made for non-ambulant spectators (Small Wheel Chairs) @ 1/250 up to 1000 spectators and 1/500 for spectators above 1000.

##### **9.3.2 Buildings to be designed for Non-Ambulant Disabled People**

Schools for differently abled, Botanical Gardens, Religious Buildings, Elderly People Clubs, Village Halls, Day Centers, Junior Training Centers, Post Offices, Banks, Dispensaries, Railway Stations, Shops, Super Markets, and Departmental Stores.

**Note:** Large wheel chair criteria shall be applicable on ground floors of the following building, post offices, banks, dispensaries, railway station, shops, supermarkets, and departmental stores.

##### **9.3.3 Buildings to be designed for Non-Ambulant People (using small wheel chairs)**

Public lavatories in Tourist Spots, Clubs, Motels, Professional and Scientific Institution, Museum, Art Galleries, Public Libraries, Laboratories, Universities, College for further Education, Teachers Training Colleges, Technical College, Exhibition Halls, Dentist Surgeries, Administrative Department of the Hospitals, Service Stations, Car Parking Buildings, Airports Terminals, Bus Terminals, Factories Employing differently-abled for sedentary works, Large Offices, (with plinth area above 1400 Sq.mt.), Tax Offices, Passport Offices, Pension Offices, and Labor Offices, Cafes, Banqueting Rooms and Snack Bars (For capacity above 100 dinners).

##### **9.3.4 Site development**

Level of the roads, access paths and parking areas shall be described in the plan along with specification of the materials.

#### **9.3.4.1 Access Path / Walk Way**

Access path from plot entry and surface parking to building entrance shall be minimum of 1800 mm wide having even surface without any steps. Slope, if any, shall not have gradient greater than 5%. Selection of floor material shall be made suitably to attract or to guide visually impaired persons (limited to coloured floor material whose colour and brightness is conspicuously different from that of the surrounding floor material or the material that emits different sound to guide visually impaired persons; hereinafter referred 'o as 'guiding floor material'.

Finishes shall have a non-slip surface with a texture traversable by a wheel chair. Kerbs wherever provided should blend to a common level.

#### **9.3.4.2 Parking**

For parking of vehicles of differently-abled people, the following provisions shall apply:

- a) Surface parking for two car spaces shall be provided near entrance for the physically differently-abled persons with maximum travel distance of 30.0m from building entrance.
- b) The width of parking bay shall be minimum 3.6 meter.
- c) The information stating that the space is reserved for wheel chair users shall be conspicuously displayed.
- d) Guiding floor materials shall be provided or a device, which guides visually impaired persons with audible signals, or other devices, which serves the same purpose, shall be provided.

### **9.4 Building requirements**

The specified facilities in buildings for differently abled persons shall be as follows:

#### **9.4.1 Approach to plinth level**

Every building should have at least one entrance accessible to the differently able and shall be indicated by proper signage. This entrance shall be approached through ramp together with the stepped entry.

**a. Ramped Approach:** Ramp shall be finished with non-slip material to enter the building. Minimum width of ramp shall be 1800mm with maximum gradient 1:12. Length of ramp shall not exceed 9.0 meter having 800mm high hand rail on both sides extending 300mm beyond top and bottom of the ramp. Minimum gap from the adjacent wall to the hand rail shall be 50mm.

**b. Stepped Approach:** For stepped approach size of tread shall not be less than 300mm and maximum riser shall be 150mm. Provision of 800mm high hand rail on both sides of the stepped approach similar to the ramped approach.

**c. Exit/Entrance Door:** Minimum & clear opening of the entrance door shall be 900mm and it shall not be provided with a step that obstructs the passage of a wheelchair user. Threshold shall not be raised more than 12mm.

**d. Entrance Landing:** Entrance landing shall be provided adjacent to ramp with the minimum dimension 1800mm x 2000mm. The entrance landing that adjoins the top of a slope shall be provided with floor materials to attract the attention of visually impaired person's (limited to coloured floor material whose colour and brightness is conspicuously different from that of the surrounding floor material or the material that emits different sound to guide visually impaired persons. Finishes shall have a non-slip surface with a texture traversable by a wheel chair. Kerbs wherever provided should blend to a common level.

#### **9.4.2 Corridor connecting the entrance/ exit for the differently abled**

The corridor connecting the entrance / exit for differently abled leading directly outdoors to a place where information concerning the overall use of the specified building can be provided to visually impaired persons either by a person or by signs, shall be provided as follows:

- a) Guiding floor materials shall be provided or device that emits sound to guide visually impaired persons.
- b) The minimum width shall be 1500mm.
- c) In case there is a difference of level, slope ways shall be provided with a slope of 1:12.
- d) Handrails shall be provided for ramps/slope ways.

### **9.5 Stair-ways**

One of the stair-ways - near the entrance / exit for the differently abled shall have the following provisions:

- a) The minimum width shall be 1350 mm.

- b) Height of the riser shall not be more than 150 mm and width of the tread 300mm. The steps shall not have abrupt (square) nosing.
- c) Maximum number of risers on a flight shall be limited to 12.
- d) Handrails shall be provided on both sides and shall extend 300 mm on the top and bottom of each flight of steps.

### **9.6 Lifts**

Wherever lift is required as per bye-laws, provision of at least one lift shall be made for the wheel chair user with the following cage dimensions of lift recommended for passenger lift of 13 person's capacity of NBC 2005, BIS. Section 4.9.3 Table no1-Desirable Lift size

Clear internal width 1100 mm

Clear internal depth 2000 mm

Entrance door width 900 mm

a) A hand rail not less than 600mm long at 1000mm above floor level shall be fixed adjacent to the control panel.

b) The lift lobby shall be of an inside measurement of 1800 mm x 2000 mm or more.

c) The time of an automatically closing door should be minimum 5 seconds and the closing speed should not exceed 0.25 m/ sec.

d) The interior of the cage shall be provided with a device that audibly indicates the floor, the cage has reached indicates that the door of the cage of entrance/exit is either open or closed.

e) Graphic/Braille signage, as per the Harmonized Guidelines, shall be provided in the lift lobby.

### **9.7 Toilets**

One special W.C. in a set of toilets shall be provided for the use of differently able with essential provision of washbasin near the entrance for the differently abled.

a) The minimum size shall be 1500 mm x 1750 mm.

b) Minimum clear opening of the door shall be 900mm and the door shall swing out.

c) Suitable arrangement of vertical/horizontal handrails with 50mm clearance from wall shall be made in the toilet.

d) The W.C. seat shall be 500mm from the floor.

#### **9.7.1 Provision of WCs in buildings without lift:**

Provision of special W.C. shall be made on all floors for buildings designed for ambulant disabled persons. For buildings designed for non-ambulant disabled special W.C. shall be provided at Ground Floor. Size of W.C. shall depend on the type of wheel chair used by the disabled.

#### **9.7.2 Provisions of WCs in buildings with lift**

Provision of Special W.C. shall be made on all floors. Size will depend on the category of disabled for whom it has been provided.

#### **9.7.3 Toilet Details: For Toilets Designed for Ambulant Disabled**

a) The minimum size of W.C. shall be 1075 x 1650 mm with a minimum depth of 1450 mm from entry door 900 mm.

b) Long handrail on the side closer to W.C. with a clear width between the handrails shall be 900 mm and height of handrails shall be 800 mm from floor level.

c) Minimum size of the clear door opening shall be 780 mm.

#### **9.7.4 For Toilets Designed for Non-Ambulant Disabled Small Wheel Chair:**

The minimum size of W.C. shall be 1350 x 1500 mm with a minimum depth of 1500 mm from entry door. 900 mm long handrail on the side closer to W.C. shall be provided. To provide movement space for wheel chair, W.C. seat shall be fixed towards one side to the opposite adjacent wall. The centerline of W.C. from the adjacent wall shall be 400 mm and minimum 950 mm from the other wall.

Minimum size of the clear door opening shall be 780 mm.

#### **9.7.5 For Toilets Designed for Non-Ambulant Disabled Using Large Wheel Chair:**

The minimum size of W.C. shall be 1500 X 1750 mm with a minimum depth of 1750 mm for entry door. 900 mm long handrail on the side wall closer to W.C. shall be provided. To provide movement space for wheel chair, W.C. seat shall be fixed towards one side of the opposite wall. The centerline of the W.C. from the adjacent wall shall be 400 mm and a minimum of 1100 mm from the other wall. Min. size of clear door opening shall be 860 mm.

### **9.8 Designing for Children:**

In the buildings meant for the pre-dominant use of the children, it will be necessary to suitably alter the height of the handrail and other fittings & fixtures etc.

**Note:** Guiding / Warning Floor Material: The floor material to guide or to warn the visually impaired persons with a change of colour or material texture and easily distinguishable from the rest of the surrounding floor materials. The material with different texture gives audible signals with sensory warning when a person moves on this surface with walking stick. The guiding/warning floor material is meant to give the directional effect or warn a person at critical places. It should be provided in the following areas:

- a. The access path to the building and to the parking area.
- b. The landing lobby towards the information board, reception, lifts, staircases and toilets
- c. Immediately at the beginning/end of walkway where there is a vehicular traffic.
- d. At the location abruptly changing in level or beginning/end of a ramp.
- e. Immediately in front of an entrance/exit and the landing.

### **9.9 Drinking Water:**

Suitable provision of drinking water shall be made for the differently abled near the special toilet provided for them.

### **9.10 Refuge:**

An alternative to immediate evacuation of a building via staircases and/ or lifts is the movement of disabled persons to areas of safety within a building. If possible, they could remain there until the fire is controlled and extinguished or until rescued by the fire fighters.

- a) It is useful to have the provisions of a refuge area, usually at the fire protected stair landing on each floor that can safely hold one or two wheelchairs.
- b) Hand Doorways with clear opening width of 900 mm and regular compliance
- c) Have an alarm switch installed between 900 mm and 1200 mm from floor level.

### **9.11 Proper signage:**

- a) Appropriate identification of specific facilities within a building for the differently abled persons should be done with proper signals.
- b) Visually impaired persons make use of other senses such as hearing and touch to compensate for the lack of vision, whereas visual signals benefit those with hearing disabilities. Signs should be designed and located so that they are easily legible by using suitable letter size (not less than 20 mm high).
- c) For visually impaired persons, information board in brail should be installed on the wall at a suitable height and it should be possible to approach them closely.
- d) To ensure safe walking, there should not be any protruding sign which creates obstruction in walking.
- e) Public Address System may also be provided in busy public areas.
- f) The symbols/information should be in contrasting colour and properly illuminated because people with limited vision may be able to differentiate amongst primary colours.
- g) International Symbol Mark for wheel chair be installed in a lift, toilet, staircase, parking areas, etc., that have been provided for the differently abled.

### **9.12 Public Building regulations:**

In case of design regulations in **Public buildings** (excluding domestic buildings), provisions for differently-abled shall be adopted as per **Appendix-XIV** of the byelaws and according to the **Annex 'D' of Part 3, NBC 2005**.

## CHAPTER - 10

### **10. RAIN WATER HARVESTING**

#### **10.1 Rainwater Harvesting principle:**

The harvesting of rainwater simply involves the collection of water from surfaces on which rain falls, and subsequently storing this water for use. The rainwater collected can be stored for direct use or can be recharged into the underground aquifers. In scientific terms water harvesting (broadly) refers to collection and storage of rainwater from the rooftops. This also restricts evaporation and seepage into building foundations. All buildings having a plot size of 100 Sq.m. or more, while submitting the building plans for sanction, shall mandatorily include the complete proposal of rainwater harvesting.

A rainwater harvesting system consists of:

- i. Roof catchment
- ii. Gutters
- iii. Down pipes
- iv. Rain water/ Storm water drains
- v. Filter chamber
- vi. Storage Tanks/ Pits/ Sumps

vii. Ground Water recharge structures like pit, trench, tube well or combination of above structure. Rainwater Harvesting is a way to capture the rain runoff, store that water aboveground or charge the underground aquifers and use it later. This happens naturally in open rural areas. But in congested, over-paved metropolitan cities, there is a need to devise methods to capture the rain water. The rainwater that is incident on the surface/ roof top is guided to bore wells or pits or new/old/ abandoned wells through

Small diameter pipes to recharge the underground water which can be used later whenever required. Rainwater can be harvested to the extent of 55,000 liters per 100Sq. m area per year from rooftops.

### **10.2 Rainwater harvesting techniques:**

There are two main techniques of rain water harvestings.

- a. Storage of rainwater on surface for future use.
- b. Recharge to ground water.

### **10.3 Harvesting provisions in various Building categories:**

All buildings in a city contribute to the rainwater runoff during the monsoon and hence such runoff can be harvested for water reuse/recharge.

Rainwater harvesting in a building site includes storage or recharging into ground of rainwater falling on the terrace or on any paved or unpaved surface within the building site.

The following systems may be adopted for harvesting the rainwater drawn from terrace and the paved surface.

a. Open well of a minimum of 1.00 m dia. and 6.00 m in depth into which rainwater may be channeled and allowed after filtration for removing silt and floating material. The well shall be provided with ventilating covers. The water from the open well may be used for non-potable domestic purposes such as washing, flushing and for watering the garden, etc.

b. Rainwater harvesting for recharge of ground water may be done through a bore well around which a pit of one meter width may be excavated up to a depth of at least 3.00 m and refilled with stone aggregate and sand. The filter drain water may be channeled to the refilled pit for recharging the bore well.

c. An impervious storage tank of required capacity may be constructed in the setback or other than, space and the rainwater may be channeled to the storage tank. The storage tank may be raised to a convenient height above the surface and shall always be provided with ventilating the surface and shall always be provided with ventilating covers and shall have draw off taps suitably place so that the rain water may be drawn off for domestic, washing, gardening and such other purposes. The storage tanks shall be provided with an overflow.

d. The surplus rainwater after storage may be recharged into ground through percolation pits, trenches, or combination of pits and trenches. Depending on the geomorphologic and topographical condition, the pits may be of the size of 1.20 m width x 1.20 m length x 2.00 m to 2.50 m depth. The trenches can be or 0.60 m width x 2.00 m to 6.00 m length x 1.50 m to 2.00 depth. Terrace water shall be channeled to pits or trenches. Such pits or trenches shall be backfilled with filter media comprising the following materials. –

- i. 40 mm stone aggregate as bottom layer up to 50% of the depth;
- ii. 20 mm stone aggregate as lower middle layer up to 20% of the depth;
- iii. Course sand as upper middle layer up to 20% of the depth;
- iv. A thin layer of fine sand as top layer;

v. Top 10% of the pits / trenches will be empty and a splash is to be provided in this portion in such a way that roof top water falls on the splash pad;

vi. Brick masonry wall is to be constructed on the exposed surface of pits /trenches and the cement mortar plastered;

vii. The depth of wall below ground shall be such that the wall prevents losesoil entering into pits / trenches. The projection of the wall above ground shall at least be 15 cm;

viii. Perforated concrete slabs shall be provided on the pits / trenches.

e. If the open space surrounding the building is not paved, the top layer up to a sufficient depth shall be removed land refilled with course sand to allow percolation of rainwater into ground.

The terrace shall be connected to the open well / bore well / storage tank / recharge pit /trench by means of H.D.P.E. / P.V.C. pipes through filter media. A valve system shall be provided to enable the first washings from roof or terrace catchments, as they would contain undesirable dirt. The mouths of all pipes and opening shall be covered with mosquito (insect) proof wire net. For the efficient discharge of rainwater, there shall be at least two rain water pipes of 100 mm dia. for a roof area of 100 Sq.m. Rainwater harvesting structures shall be sited as not to endanger the stability of building or earthwork. The structures shall be designed such that no dampness is caused in any part of the walls or foundation of the building or those of an adjacent building.

#### **10.4 Rain Water Harvesting Provisions for Open spaces in cities**

The open spaces/recreational land use generally constitute regional parks, district parks, playground and stadium, sports complex, monument zones, public parking, Plaza and other public open space. This may be as high as 30% to 50% of the city's geographic area. All such public open spaces above the size of 500 Sq.m. shall have arrangements for complete utilization and capture of storm water with scientific rainwater harvesting arrangements.

Following ideas may also be included:

- i. Well cum Channel cum Percolation pits.
- ii. Use of abandoned bore wells for recharging of ground water
- iii. Artificial or natural Storage of storm water runoff from larger sites.

#### **10.5 Ground Water Recharge**

Recharging of ground water should be made mandatory not only for residential buildings but for all types of buildings, including Group Housing Societies having a plot area more than 500 Sq.m. and above. The Ground Water Recharge should also be mandatory for open spaces like parks, parking, plazas and playgrounds. The harvesting and recharge structures could be constructed by the Authority with the involvement of community based organizations like Resident Welfare Associations.

#### **10.6 Enforcement and Monitoring**

- a. The Authority shall constitute a **Rainwater Harvesting Cell** which will be responsible for enforcement and monitoring of the provisions of Rainwater Harvesting. The cell shall employ qualified persons who are well versed with the interpretation of Building Bye Laws and responsible for enforcement as well as monitoring the functioning of the Rainwater Harvesting System.
- b. The Authority shall include inspection of Rainwater Harvesting Structures before issuing Completion Certificates or NOCs for service connections to the property.
- c. Set an example in the city by ensuring that Rainwater is harvested in the properties assets owned by them including public buildings, markets, centers, parking spaces, roads and parks etc.
- d. The Authority shall also establish a mechanism to monitor 100% of RWH provisions in all the buildings above 1000 Sq.m. with annual physical verification, while buildings less than 1000 Sq.m. can be monitored on the basis of 10% random survey by competent authority.
- e. With regard to open public spaces viz., Parks, playgrounds etc. the implementation of provision rainwater harvesting may be done with the help of Residents Welfare Associations, Community Building Organization and Non-Governmental Organizations.
- f. The Authority shall ensure earmarking budgetary provision for the creation and maintenance of rainwater harvesting structures in public spaces owned and maintained by them, like parking spaces, parks, plazas etc.
- g. The practice of incentives and penalties to promote rain water harvesting shall be formulated by the local authority based on best practices. Authority shall design its own incentive and penalty systems, considering the water level and scarcity.

### **CHAPTER - 11**

#### **11. GREEN BUILDINGS AND SUSTAINABILITY PROVISIONS**

Modern buildings consume about 25 to 30 % of total energy, and up to 30 % of fresh potable water, and generate approximately 40 % of total waste. Sustainable buildings have demonstrated reduction in energy and water consumption to less than half of the present consumption in conventional buildings, and complete elimination of the construction and operational waste through recycling.

*Thus, all buildings on various plot sizes above 100 Sq.m shall comply with the green norms and conform to the requirements mandatory for sanction as mentioned in this chapter.*

These provisions are not specific to any rating system and are not intended to provide single metric indication of overall building performance. These provisions allow the practitioners to easily exercise their engineering judgment in holistically and objectively applying the underlying principles of

sustainability to a development or building facility, considering its functionality and required comfort level.

### **11.1 Provisions and Applicability**

The green building provisions on various plot sizes are indicated in the table below:

**Table 11.1 Provisions and applicability for various plot sizes (Residential and Non-Residential)**

<b>Plot Category</b>	<b>Applicable plot area (Sq.m)</b>	<b>Applicable construction area (Sq.m)</b>	<b>Provisions for Residential</b>	<b>Provisions for Non-Residential</b>
I	Up to 500	--	Nil	Nil
II	500 to 1,000	Upto 500	1(a), 1(b), 2(b), 4(a)	1(a), 1(b), 4(a)
		500 to 2000	1(a), 1(b), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 2(a), 3(c), 4(a)
		Above 2000	1(a), 1(b), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 2(a), 2(b), 3(b), 3(c), 4(a)
	1,000 to 3,000	Upto 500	1(a), 1(b), 1(d), 2(b), 4(a)	1(a), 1(b), 1(d), 4(a)
		500 to 2000	1(a), 1(b), 1(d), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 3(c), 4(a)
		2000 to 5000	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)
		Above 5000	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a)	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a)
III	Above 3,000	Upto 500	1(a), 1(b), 1(d), 2(b), 3(a), 4(a)	1(a), 1(b), 1(d), 3(a), 4(a)
		500 to 2000	1(a), 1(b), 1(d), 2(a), 2(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 3(c), 4(a)
		2000 to 5000	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)	1(a), 1(b), 1(d), 2(a), 2(b), 3(b), 3(c), 4(a)
		Above 5000	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a), 4(b)	1(a), 1(b), 1(c), 1(d), 2(a), 2(b), 3(a), 3(b), 3(c), 4(a), 4(b)

\*Note: provisions marked 1(a), 2(b) etc. are as per **Clause 11.2**.

The schemes/ projects formulated on the basis of provisions given in Master plan/ Zonal Development Plan will require approval as indicated:

EIA/ ECC (as per MoEF), NBC (latest), ECBC 2007 or latest, BEE Star rating/ LEED of IGBC/ GRIHA of TERI Certification}

**EIA**- Environmental Impact Assessment Study Report,

**ECC**- Environmental Clearance Certificate,

**MoEF** – Ministry of Environment and Forest,

**NBC** – National Building Code,

**ECBC** – Energy Conservation Building Code,

**BEE** – Bureau of Energy Efficiency,

**LEED** – Leadership in Energy and Environment Design,

**IGBC** –Indian Green Building Council,

**GRIHA** – Green Rating for Integrated Habitat Assessment,

**TERI** – The Energy and Resources Institute.

The prevailing provisions of the above shall be applicable. However, if there are any modification in the same, the modified provisions shall become automatically applicable.

### **11.2 Provisions for Sanction**

#### **1. Water Conservation and Management**

- a) Rain Water Harvesting
- b) Low Water Consumption Plumbing Fixtures
- c) Waste Water Recycle and Reuse
- d) Reduction of Hard cape

## **2. Solar Energy Utilization**

a) Installation of Solar Photovoltaic Panels (detailed at **Clause 11.2.3** below)

b) Installation of Solar Assisted Water Heating Systems

**3. Energy Efficiency (Concept of passive solar design of buildings)(Ref. Table 15.1-3)**

a) Low Energy Consumption Lighting Fixtures (Electrical Appliances – BEE Star and Energy Efficient Appliances)

b) Energy Efficiency in HVAC systems.

c) Lighting of Common areas by Solar energy/ LED devices.

## **4. Waste Management**

a) Segregation of Waste

b) Organic Waste Management

In case owners of properties desire to procure green building ratings from one or more rating bodies, they may suitably incorporate any other provisions if required and additional incentives as notified by the Government, may be availed.

### **11.2.1 Provisions for City and Site level greening**

In alignment with National Sustainable Habitat Mission, the Authority shall encourage augmentation of green cover in the city/plot, by following:

The Urban Greening Guidelines, 2014 and other provisions as given below -

- i. Provision of minimum 1 tree / every 80S.qm of plot area for plot sizes >100S.qm and planted within the setback of the plot.
- ii. Compensatory Plantation for felled/transplanted trees in the ratio 1:3 within the premises under consideration.
- iii. Choice of species for plantation in site and abutting the road to be adopted as per Section 8 of the Urban Green Guidelines, 2014.
- iv. The unpaved area shall be more than or equal to 20% of the recreational open spaces.

### **11.2.2 Water Re-use and Recycling**

All building having a minimum discharge of 10,000 l. and above per day shall incorporate waste water recycling system. The recycled water should be used for horticultural purposes.

### **11.2.3 Roof Top Solar Energy Installations**

Roof top photovoltaic power station, or rooftop PV system, is a photovoltaic system that has its electricity-generating solar panels mounted on the rooftop of residential or commercial buildings. The various components of such a system include photovoltaic modules, mounting systems, cables, solar inverters and other electrical accessories. Rooftop PV systems are faster than other types of renewable power plants. They're clean, quiet, and visually unobtrusive. Table 10.2 below stipulates the Norms for Roof Top Solar PV Installation-

**Table 11.2 Norms for Roof Top Solar PV Installation and generation**

<b>Sl. No.</b>	<b>Category of buildings/area</b>	<b>Area standards</b>	<b>Generation requirement*</b>
<b>Residential</b>			
1	<b>Plotted Housing</b>	For HIG Plots and above	Minimum 5% of connected load or 20W/sqft for 'available roof space **, whichever is less.
2	<b>Group Housing</b>	All proposals, as per Group Housing Norms	Minimum 5% of connected load or 20W/sqft for 'available roof space **, whichever is less.

	<b>All other buildings</b> (Government or Private, defined as per clause 1.16 b to g) (mandatory for buildings having shadow free rooftop area > 50Sq.m)		
3	<b>Educational</b>	Plot size of <b>500 Sq.m and above</b>	Minimum 5% of connected load or 20W/sqft for 'available roof space**', whichever is less.
4	<b>Institutional</b>		
5	<b>Commercial</b>		
6	<b>Industrial</b>		
7	<b>Mercantile</b>		
8	<b>Recreational</b>		

\* Area provisions on roof top shall be @12 Sq.m. per 1KWP, as suggested by Ministry of New and Renewable Energy.

\*\* 'available roof area' = 70% of the total roof size, considering 30% area reserved for residents' amenities.

#### **11.2.4 Installation of Solar Assisted Water Heating System in Buildings**

I. No new building in the following categories in which there is a system of installation for supplying hot water shall be built unless the system of the installation is also having an auxiliary solar assisted water heating system:-

- a) Hospitals and Nursing Home.
- b) Hotels, Lodges, Guest Houses, Group Housing with a plot area of 4000 Sq.m
- c) Hostels of Schools, Colleges and Training Centers with more than 100 Students.
- d) Barracks of armed forces, paramilitary forces and police.
- e) Individual residential buildings having more than 150 Sq.m plinth area.
- f) Functional Buildings of Railway Stations and Air Ports like waiting rooms, retiring rooms, rest rooms, inspection bungalows and catering units.
- g) Community Centers, Banquet Halls, Barat Ghars, Mangal Karyalayas and buildings for similar use.

II. Definitions

i)	'Solar Assisted Water Heating System'	A device to heat water using solar energy as heat source.
ii)	'Auxiliary back-up'	Electricity operated or fuel fired boilers/systems to heat water coming out from solar water heating system to meet continuous requirement of hot water.
iii)	'New Building'	Such buildings of above said categories for which construction plans have been submitted to the Authority for clearance.
iv)	'Existing building'	Such buildings, which are licensed to perform their respective business.

III. Installation of Solar Water Heating System

a) New Buildings: Clearance of plan for the construction of new buildings of the aforesaid categories shall only be given if they have a provision in the building design itself for an insulated pipeline from the rooftop in the building to various distribution points where hot water is required. The building must have a provision for continuous water supply to the solar water heating system. The building should also have open space on the rooftop, which receives direct sunlight. The load bearing capacity of the roof should at least be 50 kg/Sq. All new buildings of above said categories must complete installation of solar water heating systems before obtaining necessary license to commence their business.

b) Existing Buildings: Installation of Solar Assisted Water Heating Systems in the existing building shall be made mandatory at the time of change of use to above said category provided there is a system or installation for supplying hot water.

IV. Capacity: The capacity of solar water heating system to be installed on the building of different categories shall be decided in consultation with the local bodies. The recommended minimum capacity shall not be less than 25 liters per day for each bathroom and kitchen subject to the condition that maximum of 50% of the total roof area is provided with the system.

V. Specifications: Installation of Solar Assisted Water Heating Systems shall conform to BIS specification IS 12933. The solar collectors used in the system shall have the BIS certification mark.

VI. Auxiliary System: Wherever hot water requirement is continuous, auxiliary heating arrangement either with electric elements or oil of adequate capacity can be provided.

### **11.2.5 Sustainable Waste Management**

**Zero Waste** is a concept of waste management and planning approaches that emphasize waste prevention as opposed to end waste management. This means restructuring production and distribution systems, designing and managing products and processes to systematically follow the 3R rule of Reduce, Re-use and Re-cycle the volume of waste, to conserve and recover all used resources, and thereby eliminating all discharges to landfills, and prevent air, water and land pollution.

Zero Waste/ land- fill can be achieved by adopting systematic approach of segregation at source by planning, by collection facilitation and most importantly by creating public awareness.

The green waste can be converted into fuel cakes, kitchen waste into manure, construction & demolition waste into bricks, plastic waste into oil, paper, glass and steel back into the same and all residual inert materials can also be converted into bricks. Achieving zero land-fill is more conveniently possible, if

- The collection is made from house to house and some segregation is done at household level and
- Separate wet and dry bins must be provided at the ground level.
- The recycling is done at decentralized, say, ward or even lower levels.

### **11.2.6 Sustainability of Building Materials**

Sustainability of natural resources for building materials shall be ensured through conservation of available natural resources and use of supplementary materials such as industrial/agricultural by-products, renewable resources, factory made building components and recycled construction and demolition waste. Supplementary building materials (derived or processed waste) shall be suitably used in

combination with conventional resources offers dual advantages in purview of health & environmental benefits.

Use of Factory made pre-fab/pre-cast and recycled components with Green benefits:

- Panels, hollow slabs, hollow blocks-etc. - conservation of materials, less water requirement.
- Fly Ash bricks, Portland Pozzolana cement, Fly ash concrete, phosphor gypsum based walling & roofing panels, particle wood – recycled use of industrial/agricultural by-products. (**Ref. Table 14**)
- Fly ash/ AAC (Autoclaved aerated light weight concrete) panels/ CLC (Cellular light weight concrete) panels- ensures thermal comfort (significant reduction in air conditioning requirement)
- Use of bamboo & rapidly growing plantation timbers- environmental benefits. Local materials are generally suitable for prevailing geo-climatic conditions & have advantage of low transportation cost & time. Sustainable use of building materials shall be encouraged which may combine certain mandatory provisions and incentives.

### **11.3 Various Guidelines for Green Rating systems**

The respective State Governments may prepare their separate **Green Rating** systems for buildings by selectively combining/adopting/amending the provisions between the following guidelines:

- IGBC guidelines by the Confederation of Indian Industries.
- GRIHA guidelines by the Ministry of New and Renewable Energy, GoI. In pursuance of the **National Sustainable Habitat Mission** on Energy Efficiency in Buildings, the Authority shall encourage the provisions of the following Energy efficiency guidelines by certain mandatory provisions and incentives-
- ECBC guidelines prepared by Bureau of Energy Efficiency, Ministry of Power GoI
- Model Energy Efficiency guidelines. (NSMH Sub report by Bureau of Energy Efficiency)

## **CHAPTER - 12**

### **12. FIRE PROTECTION AND FIRE SAFETY REQUIREMENTS**

#### **12.1 Scope**

This part covers the requirements of the fire protection for the multi-storeyed buildings (high rise buildings) and the buildings, which are of 15 m. and above in height and low occupancies of categories such as Assembly, Institutional, Educational (more than two storeyed and built-up area exceeds 1000 Sq.m), Business (where plot area exceeds 500 Sq.m), Mercantile (where aggregate covered area exceeds 750 Sq.m), Hotel, Hospital, Nursing Homes, Underground Complexes, Industrial Storage, Meeting/Banquet Halls, Hazardous Occupancies.

#### **12.2 Procedure for obtaining NOC and Clearance Certificate from DFES**

The procedure of obtaining NOC from Department of Fire & Emergency Services (DFES) is detailed in **clause no. 3.10** and the procedure of obtaining Clearance Certificate is detailed in **Clause no. 3.17**

### **12.3 Renewal of fire clearance**

On the basis of undertaking given by the Applicant and the professional on record, the Chief Fire Officer shall renew the fire clearance in respect of all High-Rise buildings on annual Basis

### **12.4 Fee**

For augmentation of fire service facilities for effecting rescue/firefighting operation in high rise building, fee payable to Chief Fire Officer by the applicant(s) along with sets of plans for obtaining the No Objection Certificate shall be as notified by the Government.

### **12.5 Responsibility of providing Fire Protection & Fire Fighting Measures**

The engaged Competent Professional on record for preparation of plans for NOC and the professional on record for supervising the works (as per **Appendix-I**) of the project shall be responsible for making provisions for fire protection and firefighting measure as provided in this Chapter.

### **12.6 Terminology**

For the purpose of this Chapter all the technical terms shall have the meaning as defined in National Building Code of India, Part-IV, Fire Protection as amended from time to time but for the terms which are defined otherwise in these bye-Laws.

### **12.7 General**

The DFES may insist on suitable provisions in the buildings from fire safety and means of escape point of view depending on the occupancy, height or on account of new developments creating special fire hazard, in addition to the provision of these building bye laws and part IV (Fire Protection) of National Building Code of India, which are not contradicting to the provision of the Zonal Regulations.

#### **12.7.1 Fire Resistance of Types of Constructions / Building Components**

The fire resistance ratings for various types of construction for structural and nonstructural members shall be as given in Table 1 of Part IV of the NBC, 2005. Building elements/components such as walls, columns, beams and floors shall have the requisite fire resistance rating in accordance with the accepted standards at Tables 2 to 18 of Part IV of the NBC.

#### **12.7.2 The following Sections MEANS OF ACCESS**

As provided in Zonal Regulations.

#### ***Provisions of Exterior Open Spaces around the Building:***

As provided in Zonal Regulations

#### **12.7.3 EXIT REQUIREMENT**

As provided in Section 4.2 of Part 4, NBC 2005.

**Type of Exits:** As provided in Section 4.2.1 of Part 4, NBC 2005.

**Number of Size of Exits:** As provided in Section 4.6 of Part 4, NBC 2005.

**Arrangements of Exits:** As provided in Section 4.5 of Part 4, NBC 2005.

**Occupant Load:** As provided in Section 4.3 of Part 4, NBC 2005.

**Capacity of Exit:** As provided in Section 4.4 of Part 4, NBC 2005.

**Staircase Requirements:** As provided in Section 4.9 of Part 4, NBC 2005.

**Minimum Width Provision for Stairways:** As provided in Section 4.9.6 of Part 4, NBC 2005

**Minimum Width Provision for Passageway/Corridors:** As provided in Section 4.8 of Part 4, NBC 2005

**Doorways:** As provided in Section 4.7 of Part 4, NBC 2005

**Stairways:** As provided in Section 4.9 of Part 4, NBC 2005

### **12.8 Fire Escapes or External Stairs:**

- a) Fire escape including Occupant load and Travel distance shall not be taken into account while calculating the number of staircases for a building.
- b) All fire escapes shall be directly connected to the ground.
- c) Entrance to the fire escape shall be separate and remote from internal staircase.
- d) The route to fire escape shall be free of obstructions at all times except the doorway leading to the fire escape which shall have the required fire resistance.
- e) Fire escape shall be constructed of non-combustible materials.
- f) Fire escape stairs shall have straight flight not less than 125 cm wide with 25cm treads and risers not more than 19 cm.

- g) Handrails shall be at a height not less than 100 cm.
- h) Fire escape staircase in the mercantile, business, assembly, hotel buildings above 24 m. height shall be a fire tower and in such a case width of the same shall not be less than the width of the main staircase. No combustible material shall be allowed in the fire tower.

### **12.8.1 Spiral Stairs**

- a) The use of spiral staircase shall be limited to low occupant load and to building height of 9 m.
- b) A spiral stair shall not be less than 150 cm in diameter and shall be designed to give the adequate headroom.

### **12.8.2 Staircase Enclosures**

- a) The external enclosing walls of the staircase shall be of the brick or the R.C.C. construction having fire resistance of not less than two hours. All enclosed staircases shall have access through self-closing door of one-hour fire resistance. These shall be single swing doors opening in the direction of the escape. The door shall be fitted with the check action door closers.
- b) The staircase enclosures on the external wall of the building shall be ventilated to the atmosphere at each landing.
- c) Permanent vent at the top equal to the 5% of the cross-sectional area of the enclosure and openable sashes at each floor level with area equal to 1 to 15% of the cross-sectional area of the enclosure on external shall be provided. The roof of the shaft shall be at least 1 m. above the surrounding roof. There shall be no glazing or the glass bricks in any internal closing wall of staircase. If the staircase is in the core of the building and cannot be ventilated at each landing, a positive of 5-mm. e.g. by electrically operated blower/blowers shall be maintained.
- d) The mechanism for pressurizing the staircase shaft shall be so installed that the same shall operate automatically on fire alarm system/sprinkler system and be provided with manual operation facilities.

### **12.8.3 Ramps**

- a) Ramps of slope of not more than 1 in 8 may be substituted for and shall comply with all the applicable requirements of all required stairways as to enclosure capacity and limiting dimensions. Larger slopes shall be provided for special uses but in no case greater than 1 in 8. For all slopes exceeding 1 in 10 and where the use is such as to involve danger of slipping, the ramp shall be surfaced with approved non-slipping material.
- b) The minimum width of the ramps in the Hospitals shall be 2.4 m. and in the basement using car parking shall be 6.0 m.
- c) Handrails shall be provided on both sides of the ramp.
- d) Ramp shall lead directly to outside open space at ground level or courtyards of safe place.
- e) For building above 24.0 m. in height, access to ramps from any floor of the building shall be through smoke fire check door.
- f) In case of nursing homes, hospitals etc. area exceeding 300 Sq.m at each floor one of the exit facility shall be a ramp of not less than 2.4 m. in width.

### **12.9 Provision of lifts**

- a) Provision of the lifts shall be made for all multi-storeyed building having a height of 15.0 m. and above.
- b) All the floors shall be accessible for 24 hours by the lift. The lift provided in the buildings shall not be considered as a means of escape in case of emergency.
- c) Grounding switch at ground floor level to enable the fire service to ground the lift car in case of emergency shall also be provided.
- d) The lift machine room shall be separate and no other machinery be installed init.

### **12.9.1 Lift Enclosure/lift**

General requirements shall be as follows

- a) Walls of lift enclosures shall have a fire rating of two hours. Lift shafts shall have a vent at the top of area not less than 0.2 Sq.m
- b) Lift motor room shall be located preferably on top of the shaft and separated from the shaft by the floor of the room.
- c) Landing door in lift enclosures shall have a fire resistance of not less than one hour.
- d) The number of lifts in one lift bank shall not exceed four. A wall of two hours fire rating shall separate individual shafts in a bank.
- e) Lift car door shall have a fire resistance rating of 1 hour.

- f) For buildings 15.0 m. and above in height, collapsible gates shall not be permitted for lifts and solid doors with fire resistance of at least one hour shall be provided.
- g) If the lift shaft and lobby is in the core of the building a positive pressure between 25 and 30 pa shall be maintained in the lobby and a possible pressure of 50 pa shall be maintained in the lift shaft. The mechanism for the pressurization shall act automatically with the fire alarm/sprinkler system and it shall be possible to operate this mechanically also.
- h) Exit from the lift lobby, if located in the core of the building, shall be through a self-closing fire smoke check door of one-hour fire resistance.
- i) Lift shall not normally communicate with the basement. If, however, lifts are in communication, the lift lobby of the basement shall be pressurized as in (g) with self-closing door as in (h).
- j) Grounding switch (es), at ground floor level shall be provided to enable the fire service to ground the lifts.
- k) Telephone/talk back communication facilities may be provided in lift cars for communication system and lifts shall be connected to the fire control room of the building.
- l) Suitable arrangements such as providing slope in the floor of the lift lobby shall be made to prevent water used during firefighting, etc. at any landing from entering the lift shafts.
- m) A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the location of the stairways. Floor marking shall be done at each floor on the wall in front of the lift-landing door.
- n) Alternate power supply shall be provided in all the lifts.

### **12.9.2 Fire Lift**

Following details shall apply for a fire lift in addition to above requirements:

- a) To enable fire service personnel to reach the upper floors with the minimum delay, one or more of the lifts shall be so designed so as to be available for the exclusive use of the fireman in an emergency and be directly accessible to every dwelling/let table floor space on each floor.
- b) The lift shall have a floor area of not less than 1.4 Sq.m It shall have a loading capacity of not less than 545 kg. (8 persons lift) with automatic closing doors.
- c) The electric supply shall be on a separate service from electric supply mains in a building and the cables run in a route safe from fire that is within a lift shaft. Lights and fans in the elevator having wooden paneling or sheet steel construction shall be operated on 24-volt supply.
- d) In case of failure of normal electric supply, it shall automatically switch over to the alternate supply. For apartment houses, this changeover of supply could be done through manually operated changeover switch. Alternatively, the lift should be so wired that in case of power failure, it comes down at the ground level and comes to stand still with door open.
- e) The operation of a fire lift shall by a single toggle of two-button switch situated in a glass-fronted box adjacent to the lift at the entrance level. When the switches on landing; call points will become inoperative and the lift will be on car control only or on a priority control device. When the switch is off, the lift will return to normal working. This lift can be used by the occupants in normal times.
- f) The words 'FIRE LIFT' shall be conspicuously displayed in fluorescent paint on the lift landing doors at each floor level.
- g) The speed of the fire lift shall be such that it can reach to the top floor from ground level within one minute.

### **12.10 Basement**

As provided in Chapter- 4 of these Building Bye-Laws.

#### **12.10.1 Requirements**

- i) The access to the basement shall be either from the main or alternate staircase providing access and exit from higher floors. Where the staircase is continue the same shall be enclosed type serving as a fire separation from the basement floor and higher floors. Open ramps shall be permitted if they are constructed within the building line subject to the provision of the (iv).
- ii) In case of basement for office, sufficient number of exit ways and access ways shall be provided with a travel distance not more than 15.0 m. The travel distance in case of dead-end shall be 7.5 m.
- iii) The basement shall be partitioned and in no case compartment shall be more than 500Sq.m and less than 50 Sq.m area except parking. Each compartment shall have ventilation standards as laid down in Bye-Laws separately and independently. The partition shall be made in consultation with Chief Fire Officer.
- iv) The first basement (fully below ground level) can be used for services/parking/other permissible services. Lower basements, if provided, shall exclusively be used for car parking only.

- v) Each basement shall be separately ventilated. Vents with cross-sectional area(aggregate) not less than 2.5 percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of grills or breakable starboard lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and extracts may be terminated at ground level with starboard or pavement lights as before. But ducts to convey fresh air to the basement floor level have to be laid. Starboard and pavement lights should be in positions easily accessible to the firemen and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.
- vi) The staircase of basement shall be of enclosed type having fire resistance of not less than two hours and shall be situated at the periphery of the basement to be entered at ground level only from the open air and in such positions that smoke from any fire in the basement shall not obstruct any exit serving the ground and upper stories of the building and shall communicate with basement through a lobby provided with fire resisting self-closing door of one hour rating. In case of basement being used as car parking only, the travel distance shall be 45 m
- vii) In multi-storeyed basements, intake duct may serve all basements levels, but each basement and basement compartment shall have separate smoke outlet duct or ducts. Mechanical extractors for smoke venting system from lower basement levels shall also be provided. The system shall be of such design as to operate on actuation of smoke, heat sensitive detectors/sprinklers, if installed, and shall have a considerably superior performance compared to the standard units. It shall also have an arrangement to start it manually.
- viii) Mechanical extractors shall have an internal locking arrangement so that extractors shall continue to operate and supply fans shall stop automatically with the actuation of fire detectors. Mechanical extractors shall be designed to permit 30 air changes per hour in case of fire or distress call. However, for normal operation, only 30 air changes or any other convenient factor can be maintained.
- ix) Mechanical extractors shall have an alternate source of power supply.
- x) Ventilating ducts shall be integrated with the structure and made out of brick masonry or RCC as far as possible and when this duct crosses the transformer area of electrical switchboard, fire dampers shall be provided.
- xi) Kitchens working on gas fuel shall not be permitted in basement/sub-basement.
- xii) If cutouts are provided from basement to the upper floors or to the atmosphere, all side cutout openings in the basements shall be protected by sprinkler headset closed spacing so as to form a water curtain in the event of a fire.
- xiii) Dewatering pump shall be provided in all bases.

### **12.11 Provision of helipad**

All high-rise buildings of height 200 m. and above shall have provision for a Helipad as per **clause no 6.5.8** of the Bye-Laws. The same shall be approved by the Authority.

### **12.12 Service ducts/refuge chute**

- a) Service duct shall be enclosed by walls and door, if any, of 2 hours fire rating. If ducts are larger than 10 Sq.m the floor should seal them, but provide suitable opening for the pipes to pass through, with the gaps sealed.
- b) A vent opening at the top of the service shaft shall be provided between one fourth and one-half of the area of the shaft. Refuge chutes shall have an outlet at least of wall of non-combustible material with fire resistance of not less than two hours. They shall not be located within the staircase enclosure or service shafts or air-conditioning shafts. Inspection panel and door shall be tight fitting with 1 hour fire resistance; the chutes should be as far away as possible from exits.
- c) Refuge chutes shall not be provided in staircase walls and A/C shafts etc.

### **12.13 Electrical services**

Electrical Services shall conform to the following:

- a) The electric distribution cables/wiring shall be laid in a separate duct shall be sealed at every floor with non-combustible material having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.
- b) Water mains, telephone wires, inter-com lines, gas pipes or any other service lines shall not be laid in ducts for electric cables.
- c) Separate conduits for water pumps, lifts, staircases and corridor lighting and blowers for pressuring system shall be directly from the main switch panel and these circuits shall be laid in separate conduit pipes, so that fire in one circuit will not affect the others. Master switches controlling essential service circuits shall be clearly labeled.

- d) The inspection panel doors and any other opening in the shaft shall be provided with airtight fire doors having fire resistance of not less than 1 hour.
- e) Medium and low voltage wiring running in shafts, and within false ceiling shall run in metal conduits. Any 230 voltage wiring for lighting or other services, above false ceiling should have 660V grade insulation. The false ceiling including all fixtures used for its suspension shall be of non-combustible material.
- f) An independent and well-ventilated service room shall be provided on the ground floor with direct access from outside or from the corridor for the purpose of termination of electrical supply from the licensed service and alternative supply cables. The doors provided for the service room shall have fire resistance of not less than 1 hour.
- g) Miniature circuit breakers (MCB) and Earth leakage circuit breaker (ELCB) shall be provided for electrical circuit.

#### **12.14 Staircase and corridor lights**

The staircase and corridor lighting shall be on separate circuits and shall be independently connected so that it could be operated by one switch installation on the ground floor easily accessible to firefighting staff at any time irrespective of the position of the individual control of the light points, if any. It should be of miniature circuit breaker type of switch so as to avoid replacement of fuse in case of crisis.

- a) Staircase and corridor lighting shall also be connected to alternate source of power supply.
- b) Suitable arrangement shall be made by installing double throw switches to ensure that the lighting installed in the staircase and the corridor does not get connected to two sources of supply simultaneously. Double throw switch shall be installed in the service room for terminating the standby supply.
- c) Emergency lights shall be provided in the staircase and corridor.

#### **12.15 Air-conditioning**

- a) Air-conditioning system should be installed and maintained so as to minimize the danger of spread of fire, smoke or fumes thereby from one floor of fire area to another or from outside into any occupied building or structure. –
- b) Air-Conditioning systems circulating air to more than one floor area should be provided with dampers designed to close automatically in case of fire and thereby prevent spread of fire or smoke. Such a system should also be provided with automatic controls to stop fans in case of fire, unless arranged to remove smoke from a fire, in which case these should be designed to remain in operation.
- c) Air-conditioning system serving large places of assembly (over one thousand persons), large departmental stores, or hostels with over 100 rooms in a single block should be provided with effective means for preventing circulation of smoke through the system in the case of fire in air filters or from other sources drawn into the system even though there is insufficient heat to actuate heat smoke sensitive devices controlling fans or dampers. Such means shall consist of approved effective smoke sensitive controls.

##### **12.15.1 Air-Conditioning should conform to the following:**

- a) Escape routes like staircase, common corridors, lift lobbies; etc. should not be used as return air passage.
- b) The ducting should be constructed of metal in accordance with BIS 655:1963
- c) Wherever the ducts pass through fire walls or floor, the opening around the ducts should be sealed with fire resisting material of same rating as of walls/floors.
- d) Metallic ducts should be used even for the return air instead of space above the false ceiling.
- e) The material used for insulating the duct system (inside or outside) should be of flame resistant (IS 4355: 1977) and non-conductor of heat.
- f) Area more than 750 Sq.m on individual floor should be segregated by a firewall and automatic fire dampers for isolation should be provided.
- g) In case of more than one floor, arrangement by way of automatic fire dampers for isolating the ducting at every floor from the floor should be made. Where plenums used for return air passage, ceiling and its features and air filters of the air handling units, these should be flame resistant. Inspection panels should be provided in the main trenching. No combustible material should be fixed nearer than 15 cm. to any duct unless such ducting is properly enclosed and protected with flame resistant material
- h) In case of buildings more than 24 m. in height, in non-ventilated lobbies, corridors, smoke extraction shaft should be provided.

### **12.15.2 Fire Dampers**

- a) These shall be located in air ducts and return air ducts/passages at the following points:
  - i) At the fire separation wall.
  - ii) Where ducts/passages enter the central vertical shaft.
  - iii) Where the ducts pass through floors.
  - iv) At the inlet of supply air duct and the return air duct of each compartment on every floor.
- b) The dampers shall operate automatically and shall simultaneously switch off the air-handling fans. Manual operation facilities shall also be provided.

*Note: For blowers, where extraction system and dust accumulators are used, dampers shall be provided.*

- c) Fire/smoke dampers (for smoke extraction shafts) for building more than 24 main height. For apartment houses in non-ventilated lobbies/corridor operated by detection system and manual control sprinkler system. For other buildings on operation of smoke/heat detection system and manual control/sprinkler system.
- d) Automatic fire dampers shall be so arranged so as to close by gravity in the direction of air movement and to remain tightly closed on operation of a fusible link.

### **12.16 Boiler Room**

Provisions of boiler and boiler rooms shall conform to Indian Boiler Act, 2007.

Further, the following additional aspects may be taken into account in the location of boiler/boiler room -

- a) The boiler shall not be allowed in sub-basement, but may be allowed in the basement away from the escape routes.
- b) The boilers shall be installed in a fire resisting room of 4 hours' fire resistance rating, and this room shall be situated on the periphery of the basement. Catch pits shall be provided at the low level.
- c) Entry to this room shall be provided with a composite door of 2 hours' fire resistance.
- d) The boiler room shall be provided with fresh air inlets and smoke exhaust directly to the atmosphere.
- e) The furnace oil tank for the boiler if located in the adjoining room shall be separated by fire resisting wall of 4 hours rating. The entrance to this room shall be provided with double composite doors. A curb of suitable height shall be provided at the entrance in order to prevent the flow of oil into boiler room in case of tank rupture.
- f) Foam inlets shall be provided on the external walls of the building near the ground level to enable the fire services to use foam in case of fire.

### **12.17 Alternate source of electric supply**

A stand by electric generator shall be installed to supply power to staircase and corridor lighting circuits, lifts detection system, fire pumps, pressurization fans and blowers, Public Address (PA) system, exit sign, smoke extraction system, in case of failure of normal electric supply. The generator shall be capable of taking starting current of all the machines and circuits stated above simultaneously. If the standby

pump is driven by diesel engine; the generator supply need not be connected to the standby pump. The generator shall be automatic in operation.

### **12.18 Safety measures in electric sub-station**

- 1) Clear independent approach to the sub-station from outside the building shall be made available round the clock
- 2) The approaches/corridors to the sub-station area shall be kept clear for movement of men and material at all times.
- 3) The sub-station space is required to be provided with proper internal lighting arrangements.
- 4) In addition to natural ventilation proper ventilation to the sub-station area is to be provided by grill shutters and exhaust fans at suitable places so as to discharge all smoke from the sub-station without delay in case of fire so that sub-station operations can be carried out expeditiously.
- 5) Cable trenches of 0.6 m. X 0.6 m. dummy floor of 0.6 m. depth shall be provided to facilitate laying of cable inside the building for connecting to the equipment.
- 6) Steel shutters of 8'X 8' with suitable grills shall be provided for transformers and sub-station room.
- 7) The floor of the sub-station should be capable of carrying 10 tons of transformer weight on wheels.
- 8) Built up substation space is to be provided free of cost.

- 9) Sub-station space should be clear from any water, sewer, air conditioning, and gas pipe or telephone services. No other service should pass through the sub-station space or the cable trenches.
- 10) Proper ramp with suitable slope may be provided for loading and unloading of the equipment and proper approach will be provided.
- 11) RCC pipes at suitable places as required will be provided for the cable entries to the sub-station space and making suitable arrangement for non-ingress of water through these pipes.
- 12) The sub-station space is to be provided in the approved/sanctioned covered area of the building.
- 13) Any other alteration /modification required while erection of the equipment will be made by the Owner / builder at site as per requirement.
- 14) Adequate arrangement for fixing chain pulley block above the fixing is available for load of 15 tons.
- 15) Provision shall be kept for the sumps so as to accommodate complete volume of transformer oil, which can spillover in the event of explosion of the transformer in the basement of the building. Sufficient arrangement should exist to avoid fire in the sub-station building from spread of the oil from the sumps.
- 16) Arrangement should be made for the provision of fire retardant cables so as to avoid chances of spread of fire in the sub-station building.
- 17) Sufficient pumping arrangement should exist for pumping the water out, in case of fire so as to ensure minimum loss to the switchgear and transformer.
- 18) No combustible material should be stacked inside the substation premises or in the vicinity to avoid chances of fire.
- 19) It should be made mandatory that the promoters of the multi-storeyed building should get substation premises inspected once a year to get their license revalidated for the provision of electric supply from Electricity Board so that suitable action can be taken against the Owner / Builder in case of non- implementation of Bye-Laws.
- 20) The sub-station must not be located below the 1st basement and above the ground floor.
- 21) The sub-station space should be totally segregated from the other areas of the basement by fire resisting wall. The ramp should have a slope of 1:10 with entry room ground level. The entire Sub-station space including the entrance aground floor is handed over to the licensee of electricity free of cost and rent.
- 22) The sub-station area shall have a clear height of 15 feet (4.5 m.) below beams. Further the Sub-station area will have level above the rest of basement level by 2 feet.
- 23) It is to be ensured that the Sub-station area is free of seepage / leakage of water.
- 24) The licensee of electricity will have the power to disconnect the supply of the building in case of violation of any of the above points. However, provision of emergency lights has to be made in the sub-station for emergency operations.
- 25) Electric sub-station enclosure must be completely segregated with 4-hoursfire rating wall from remaining part of basement.
- 26) The sub-station should be located on periphery /sub-basement and (not aboveground floor).
- 27) Additional exit shall be provided if travel distance from farthest corner tramp is more than 15 m.
- 28) Perfect independent vent system 30 air changes per hour linked with detection as well as automatic high velocity water spray system shall be provided.
- 29) All the transformers shall be protected with Nitrogen Injection System Carbon Dioxide total flooding system in case of oil filled transformer. In addition to this, manual control of auto high velocity spray system for individual transformers shall be located outside the building at ground floor.
- 30) Suitable arrangement for pump house, water storage tanks with main electrical pump and a diesel-operated pump shall be made if no such arrangement is provided in the building. In case the water pumping facilities are existing in the building for sprinkler system, the same should however be utilized for high velocity water spray system. Alternatively, automatic CO2 total flooding system shall be provided with manual controls outside the electric sub-station.
- 31) System shall have facility to give an audio alarm in the basement as well as at the control room.
- 32) Fire control room shall be manned round the clock.
- 33) The electric sub-station shall have electric supply from alternate source for operation of vent System lighting arrangements.
- 34) Cable trenches shall be filled with sand.
- 35) Partition walls shall be provided between two transformers as per the rules.
- 36) Electric control panels shall be segregated.
- 37) Exits from basement electric substation shall have self-closing fire smoke check doors of 2-hours fire rating near entry to ramp.
- 38) All openings to lower basement or to ground floor shall be sealed properly.

- 39) Yearly inspection shall be carried out by electrical load sanctioning Authority.
- 40) Ramp to be designed in a manner that in case of fire no smoke should enter the main building.
- 41) Electric sub-station transformer shall have clearance on all sides as per MBBL/relevant electric rules.
- 42) Other facility will be as per Building Bye-Laws and relevant electric rules.
- 43) Rising electrical mains shall consist of metal bus bars suitably protected from safety point of view.
- 44) Oil less transformer shall be preferred. If the sub-station is located in basement / ground floor of the main building, the transformers shall be essentially of dry type. In case of dry type transformer room with wall enclosure is not essential.

*Note: The sub-station installations shall be carried out in conformity with the local fire regulations and rules there under wherever they are in force. At other places NBC guidelines shall be followed.*

### **12.19 Fire protection requirements**

Buildings shall be planned, designed and constructed to ensure fire safety and this shall be done in accordance with part IV Fire Protection of NBC, 2005 of India, unless otherwise specified in the Zonal Regulations and these Bye-Laws. In the case of High Rise buildings NOC & Clearance Certificate has to be obtained from DFES.

#### **12.19.1 First Aid /Fixed Fire Fighting /Fire Detection Systems and other Facilities**

Provision of fire safety arrangement for different occupancy from. Sl.No. 1 to 23 as indicated below shall be as per **Annexure ‘B-I’ ‘B-II’ & ‘B-III’**.

1. Access
2. Wet Riser
3. Down Comer
4. Hose Reel
5. Automatic Sprinkler System
6. Yard Hydrant
7. U.G. Tank with Draw off Connection
8. Terrace Tanks
- 9 Fire Pump
10. Terrace Pump
11. First Aid Fire Fighting Appliances
12. Auto Detection System
13. Manual operated Electrical Fire Alarm System
14. P.A System with talk back facility
15. Emergency Light
16. Auto D.G. Set
17. Illuminated Exit Sign
18. Means of Escape
19. Compartmentation
20. MCB /ELCB
21. Fire Man Switch in Lift
22. Hose Boxes with Delivery Hoses and Branch
23. Pipes Refuge Area

##### **12.19.1.1 Note for Annexure ‘B-I’ ‘B-II’ & ‘B-III’**

1. Where more than one riser is required because of large floor area, the quantity of water and pump capacity recommended in these Annexure should be finalized in consultation with Chief Fire Officer.
2. The above quantities of water shall be exclusively for firefighting and shall note utilized for domestic or other use.
3. A facility to boost up water pressure in the riser directly from the mobile pump shall be provided in the wet riser, down comer system with suitable fire service inlets (collecting head) with 2 to 4 numbers of 63 mm inlets for 100-200 mm dia. main, with check valve and a gate valve.
4. Internal diameter of rubber hose for reel shall be minimum 20 mm. A shut off branch with nozzle of 5 mm. size shall be provided.
5. Fire pumps shall have positive suctions. The pump house shall be adequately ventilated by using normal/mechanical means. A clear space of 1.0 m. shall be kept in between the pumps and enclosure for easy movement/maintenance. Proper testing facilities and control panel etc. shall be provided.
6. Unless otherwise specified in Bye-Laws, the firefighting equipment's/ installation shall conform to relevant Indian Standard Specification.

7 In case of mixed occupancy, the firefighting arrangement shall be made as per the highest class of occupancy, unless fire separation walls are provided between different occupancies.

8. Requirement of water based first aid fire extinguishers shall be reduced to half if hose reel is provided in the Building.

### **12.20 Static water storage tank**

a) A satisfactory supply of water exclusively for the purpose of firefighting shall always be available in the form of underground static storage tank with capacity specified in **Annexure-'A'** with arrangements of replenishment by town's main or alternative source of supply @ 1000 liters per minute. The static storage water supply required for the above mentioned purpose should entirely be accessible to the fire tenders of the local fire service. Provision of suitable number of manholes shall be made available for inspection repairs and insertion of suction hose etc. The covering slab shall be able to withstand the vehicular load of 45 tons in case of high rise and 22 tons in case of low rise buildings. A

draw off connection shall be provided. The slab need not strengthened if the static tank is not located in mandatory seat- back area.

b) To prevent stagnation of water in the static water tank the suction tank of the domestic water supply shall be fed only through an over flow arrangement to maintain the level therein at the minimum specified capacity.

c) The static water storage tank shall be provided with a fire brigade collecting branching with 4 Nos. 63mm dia. instantaneous male inlets arranged in a valve box with a suitable fixed pipe not less than 15 cm dia. to discharge water into the tank. This arrangement is not required where down comer is provided.

### **12.21 Automatic sprinklers**

Automatic sprinkler system shall be installed in the following buildings:

a) All buildings of 24 m. and above in height, except group housing and 45m and above in case of apartment /group housing society building.

b) Hotels below 15 m. in height and above 1000 Sq.m built up area at each floor and or if basement is existing.

c) All hotels, mercantile, and institutional buildings of 15 m. and above.

d) Mercantile buildings having basement more than one floor but below 15 m.(floor area not exceeding 750 Sq.m)

e) Underground Shopping Complex.

f) Underground car / scooter parking /enclosed car parking.

g) Basement area 200 Sq.m and above.

h) Any special hazards where the Chief Fire Officer considers it necessary.

i) For buildings up to 24 m. in height where automatic sprinkler system is not mandatory as per these Bye-Laws, if provided with sprinkler installation following relaxation may be considered.

ii) Automatic heat/smoke detection system and M.C.P. need not be insisted upon.

iii) The number of Fire Extinguisher required shall be reduced by half.

### **12.22 Fixed Carbon di-oxide /Foam/DCO water spray extinguishing system**

Fixed extinguishing installations shall be provided as per the relevant specifications in the premises where use of above extinguishing media is considered necessary by the Chief Fire Officer.

### **12.23 Fire alarm system**

All buildings of 15 m. and above in height shall be equipped with fire alarm system, and also residential buildings (Dwelling House, Boarding House and Hostels) above 24 m. height.

a) All residential buildings like dwelling houses (including flats) boarding houses and hostels shall be equipped with manually operated electrical fire alarm system with one or more call boxes located at each floor. The location of the call boxes shall be decided after taking into consideration their floor without having to travel more than 22.5 m.

b) The call boxes shall be of the break glass type without any moving parts, where the call is transmitted automatically to the control room without any other action on the part of the person operating the call boxes.

c) All call boxes shall be wired in a closed circuit to a control panel in a control room, located as per Bye-Laws so that the floor number from where the callbox is actuated is clearly indicated on the control panel. The circuit shall also include one or more batteries with a capacity of 48 hours normal working at full load. The battery shall be arranged to be a continuously trickle charged from the electric mains.

- d) The call boxes shall be arranged to sound one or more sounders so as to ensure that all occupants of the floor shall be warned whenever any call box is actuated.
- e) The call boxes shall be so installed that they do not obstruct the exit ways and yet their location can easily be noticed from either direction. The base of the call box shall be at a height of 1.5 m. from the floor level.
- f) All buildings other than as indicated above shall, in addition to the manually operated electrical fire alarm system, be equipped with an automatic fire alarm system.
- g) Automatic detection system shall be installed in accordance with the relevant standard specifications. In buildings where automatic sprinkler system is provided, the automatic detection system may not be insisted upon unless decided otherwise by the Chief Fire Officer

*Note: The installation of Fire Alarm Systems shall be carried out in conformity with the local fire regulations and rules, there under whenever they are in force and the provisions in local byelaws, if any. Several types of fire detectors are available in the market but the application of each type is limited and has to be carefully considered in relation to the type of risk and the structural features of the building where they are to be installed.*

#### **12.24 Control Room**

There shall be a control room on the entrance floor of the building with communication system (suitable public address system) to all floors and facilities for receiving the message from different floors. Details of all floor plans along with the details of firefighting equipment and installation shall be maintained in the Control Room. The Control Room shall also have facility to detect the fire on any floor through indicator boards connecting fire detection and alarm system on all floors. The staff in charge of the Control Room shall be responsible for the maintenance of the various services and firefighting equipment and installation. The Control Room shall be manned round the clock by trained firefighting staff.

#### **12.25 Fire drills and fire orders**

The guidelines for fire drill and evacuation etc. for high-rise building may be seen in **Appendix (B)** of NBC 2005 part IV. All such buildings shall prepare the fire orders duly approved by the Chief Fire Officer.

A qualified fire officer and trained staff shall be appointed for the following buildings:

- a) All high rise buildings above 30 m. in height where covered area of one floor exceeds 1000 Sq.m except apartments / group housing.
- b) All hotels, identified under classification 3 star and above category by Tourism Department and all hotels above 15 m. in height with 150 beds capacity or more without star category.
- c) All hospital building of 15 m. and above or having number of beds exceeding 100.
- d) Underground shopping complex where covered area exceeds 1000 Sq.m
- e) All high hazard industries.
- f) Any other risk which Chief Fire Officer considers necessary.

The lightening protection warning light (red) for high-rise buildings shall be provided in accordance with the relevant standard. The same shall be checked by electrical department.

#### **12.26 Material used for construction of building**

- a) The combustible/flammable material shall not be used for partitioning, wall paneling, false ceiling etc. Any material giving out toxic gases/smoke if involved in the fire shall not be used for partitioning of a floor or wall paneling or a false ceiling etc. The surface frames spread of the lining material shall conform to class- I of the standard specification. The framework of the entire false ceiling would be provided with metallic sections and no wooden framework shall be allowed for paneling/false ceiling.
- b) Construction features/elements of structures shall conform to National Building Code and BIS code.

#### **12.27 Liquefied Petroleum Gas (LPG)**

The use of LPG shall not be permitted in the high-rise building except residential/hotel/hostel/kitchen/pantry (if any) and shall be located at the periphery of the building on the ground level.

#### **12.28 House keeping**

A high standard of housekeeping must be insisted upon by all concerned. There must be no laxity in this respect. It must be borne in mind that fire safety independent to a large extent upon good housekeeping.

### **12.28.1 Good House-Keeping includes the following: -**

- a) Maintaining the entire premises in neat and clean condition.
- b) Ensuring that rubbish and combustible material are not thrown about or allowed to accumulate, even in small quantity, in any portion of the building. Particular attention must be paid to corners and places hidden from view.
- c) Providing metal receptacles/waste paper basket (of non-combustible material) at suitable locations for disposal of waste. Separate receptacles must be provided for disposal of cotton rags/waste, wherever it is generated, these must under no circumstances be left lying around in any portion of the building.
- d) Ensuring that receptacles for waste are emptied at regular intervals and the waste removed immediately for safe disposal outside the building.
- e) Ensuring that all doors/fixtures are maintained in good repairs, particular attention must be paid to self-closing fire smoke check doors and automatic fire/doors/rolling shutters.
- f) Ensuring that self-closing fire/smoke check doors close properly and that the doors are not wedged open.
- g) Ensuring that the entire structure of the building is maintained in good repairs.
- h) Ensuring that all electrical and mechanical service equipment's are maintained in good working condition at all times.
- i) Ensuring that Cars /Scooters etc. are parked systematically in neat rows. It is advisable to mark parking lines on the ground in the parking areas near the building and in the parking area on ground floor and in basement(s); as applicable, inside the building. A parking attendant must ensure that vehicles are parked in an orderly manner and that the vehicles do not encroach upon the open space surrounding the building.

### **12.28.2 Smoking Restrictions**

- a) Smoking shall be prohibited throughout the basement(s) and in all areas where there is a profusion of combustible materials. Easily readable 'NO SMOKING' signs must be conspicuously posted at locations where they can catch the eye. Each sign must also include a pictograph. The sign may also be illuminated.
- b) In all places where smoking is permitted.

### **12.28.3 Limiting the Occupant Load in Parking and Other Areas of Basement(s)**

Where parking facility is provided in the basement(s) no person other than the floor parking attendant may be allowed to enter and remain in the parking areas except for parking and removal of Cars/Scooters. Regular offices must not be maintained in the storage/parking area in the basement(s) unless separated by Fire separation walls. The stores/go down must be opened for the limited purpose of keeping or removing stores. No person other than those on duty may be permitted in the air-conditioning plant room(s), HT/LT switch room, transformer compartment, control room pump-house, generator room, stores and records etc.

### **12.29 Fire prevention**

In addition to the measures recommended above, the following fire prevention measures must be implemented when the building is in occupation.

- a) Storage of flammable substances, such as diesel oil, gasoline, motor oils, etc. must not be allowed anywhere within the building. The only exception to this rule may be:
  - i) Storage of diesel oil in a properly installed tank in a fire-resisting compartment in the generator room;
  - ii) Diesel oil, gasoline, motor oil etc., filled in the vehicle tanks.
  - b) Preparation of tea and warming of food must be prohibited throughout the hazardous building.
  - c) Where heaters are used during winters, the following precautions must be taken.
    - i) All heaters, except convector heaters, must be fitted with guards.
    - ii) Heaters must not be placed in direct contact with or too close to any combustible material.
    - iii) Heaters must be kept away from curtains to ensure that the latter do not blow over the heater accidentally.
    - iv) Heaters must not be left unattended while they are switched on.
    - v) Defective heaters must be immediately removed from service until they have been repaired and tested for satisfactory performance.
    - vi) Use of heaters must be prohibited in the entire basement, fire control room and in all-weather maker rooms throughout the building. Also in all places where there is profusion of combustible flammable materials.
    - d) Fluorescent lights must not be directly above the open file racks in offices/record rooms. Where this is unavoidable, such lights must be switched on only for as long as they are needed.

- e) Filling up of old furniture and other combustible materials such as scrap paper, rags, etc. must not be permitted anywhere in the building. These must be promptly removed from the building.
- f) More than one portable electrical appliance must not be connected to any single electrical outlet.
- g) Used stencils, ink smeared combustible materials and empty ink tubes must not be allowed to accumulate in rooms/compartments where cyclostyling is done. These must be removed and disposed of regularly.
- h) All shutters/doors of main switch panels and compartments/shafts for electrical cables must be kept locked.
- i) Aisles in record rooms and stores must have a clear uniform width of not less than 1.0 m. Racks must not be placed directly against the wall/partition.
- j) In record rooms, offices and stores, a clear space of not less than 30 cm. must be maintained between the top-most stack of stores/records and the or lighting fittings whichever is lower.
- k) A similar clearance, and at (k) above must be maintained from fire detectors.
- l) Fire detectors must not be painted under any circumstances and must also be kept free from lime/distemper.
- m) Records must not be piled/dumped on the floor.
- n) Welding or use of blow torch shall not be permitted inside the building, except when it is done under strict supervision and in full conformity with the requirements laid down in IS: 3016-1966 code of practice for fire precautions in welding and cutting operation.
- o) Printing ink/oil must not be allowed to remain on the floor, the floor must be maintained in a clean condition at all times.

### **12.30 Occupancy restrictions**

- a) The premises leased to any party shall be used strictly for the purpose for which they are leased.
- b) No dangerous trade/practices (including experimenting with dangerous chemicals) shall be carried on in the leased premises.
- c) No dangerous goods shall be stored within the leased premises.
- d) The common/public corridor shall be maintained free of obstructions, and the occupants shall not put up any fixtures that may obstruct the passage in the corridor and/or shall not keep any wares, furniture or other articles in the corridor.
- e) The penalty for contravention of the condition mentioned above must be immediate termination of lease and removal of all offending materials.
- f) Regular inspection and checks must be carried out at frequent intervals to ensure compliance with conditions above.

*Note: For any further details / clarification NBC, Part 4 shall be referred. Norms and standards in Part 4 of NBC 2005 shall be overriding in any instance of variance of standards.2*

## **CHAPTER - 13**

### **13. CONSERVATION OF HERITAGE SITES INCLUDING HERITAGE BUILDINGS, HERITAGE PRECINCTS AND NATURAL FEATURE AREAS**

The objective of this regulation shall be to conserve, regulate and manage buildings, artifacts, structures, areas and precincts of historic and / or aesthetic and / or architectural and / or cultural significance and / or environmental significance (heritage buildings and heritage precincts) and / or natural features of environmental significance and or sites of scientific beauty, so as to promote heritage sensitive development.

#### **13.1 Applicability:**

This regulation shall apply to all heritage sites, buildings, heritage precincts and natural features declared under the Karnataka Town and Country Planning Act, 1961. Including those declared by Archaeological Survey of India and State Archaeology Department.

#### **13.2 Composition of heritage conservation committee:**

For the city, there shall be Heritage Committee (hereinafter referred to as the Committee) consisting of the following Members appointed by the State Government.

**TABLE 13.1 Composition of heritage conservation committee for Bengaluru:**

1.	Commissioner, Bruhat Bengaluru Mahanagara Palike	Chairman
2.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member

3.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
4.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject	Member
5.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
6.	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. degree having 10 years' experience in the field.	Member
7.	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
8.	Representative of ASI, Government of India.	Member
9.	Commissioner, Archeology, Museums and Heritage Department, Mysore or his nominee.	Member
10.	Representative of two local NGO's in existence for more than 3 years.	Member
11.	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
12.	Director of Town and County Planning or his nominee	Member
13.	Commissioner, Bengaluru Development Authority.	Member Secretary

**Table 13.2 Composition of heritage conservation committee for Other Corporation Areas:**

1.	Deputy Commissioner	Chairman
2.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member
3.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
4.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject	Member
5.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
6.	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. Degree having 10 years' experience in the field.	Member
7.	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
8.	Representative of ASI, Government of India.	Member
9.	Commissioner, Archaeology, Museums and Heritage Department Mysore or his nominee.	Member

10.	Representative of two NGO's in existence for more than 3 years	Member
11.	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
12.	Joint Director of Town Planning / Deputy Director of Town Planning / Assistant Director of Town Planning, respective City Corporation.	Member
13.	Commissioner, Urban Development Authority.	Member Secretary

**TABLE 13.3 Composition of heritage conservation committee for all other Towns/Cities -at District level:**

1.	Deputy Commissioner	Chairman
2.	Commissioner of respective Urban Development Authority.	Member
3.	Commissioner of respective City Municipal Council.	Member
4.	Chief Officer or respective Town Municipal Council.	Member
5.	Chief Officer of respective Town Panchayat.	Member
6.	Structural Engineer having experience of at least 10 years in the field and membership of the Institute of Engineers (India)	Member
7.	Architect having at least 10 years' experience in Architecture and five years in heritage conservation architecture and membership of the Council of Architecture.	Member
8.	Environmentalist with recognized post graduate degree having in depth knowledge and experience of 10 years in the subject.	Member
9.	Academician possessing a doctorate in History / Archeology and having knowledge of the region for at least 10 years.	Member
10	Natural historian possessing post-graduation in Botany / Zoology / Forestry preferably with Ph.D. Degree having 10 years' experience in the field.	Member
11	Artist possessing degree in fine arts and at least 10 years' experience in the field.	Member
12	Representative of ASI, Government of India.	Member
13	Commissioner, Archaeology, Museums and Heritage Department Mysore or his nominee.	Member
14	Representative of two NGO's in existence for more than 3 years.	Member
15	Representative of IHCN (Indian heritage Cities Network), Mysore	Member
16	Asst. Director of Town Planning of the respective district	Member
17	Project Director, DUDC Cell	Member Secretary

- a) The Committee shall have the power to appoint two additional members who may have lesser experience, but who have special knowledge of the subject matter.
- b) The tenure of the Member of category (2) to (7) and (10) in **table – 13.1 and 12.2** category (6) to (11) and (14) of **table-13.3** shall be for three years provided however that the same person shall be

eligible for three years provided however that the same person shall be eligible for reappointment as Member.

- c) The quorum for the meeting of the Committee specified in **table 13.1 and 13.2** shall be five members including the Chairperson and for the Committee specified in **table 13.3** shall be seven members including the Chairperson. Any vacancy in the office of members shall not vitiate any decision taken by the majority of the members present.
- d) The terms of reference of committee shall be, inter-alia,
  - i. To advise the Local Authority whether development permission should be granted under this Regulation and the condition under which permission may be accorded.
  - ii. To prepare a list of buildings, artifacts, structures, areas, precincts of historic, aesthetic, architectural, cultural or environmental significance and a supplementary list of natural features of environmental significance or scenic beauty including sacred groves, hills, hillocks, water bodies (and the areas adjoining the same), open areas, wooded areas etc., to which this Regulation would apply from time to time,  
and grade them according to the heritage value.
  - iii. To advise whether any relaxation, modification, alteration or variance of any of the Zonal Regulations / Building Byelaws, is called for.
  - iv. To assist the Archeology, Museums and Heritage Department (AM&HD) in framing regulations for specific precincts and if necessary for natural features to guide the planning / Local / competent Authority regarding issue of permissions.
  - v. To advise on the extent of Development Rights Certificates to be granted.
  - vi. To advise whether Development Right Certificates may be allowed to be consumed in a heritage precinct.
  - vii. To advise in terms of this regulations whether to allow commercial / office / hotel use of a heritage building and when to terminate the same.
  - viii. To advise the Planning / Local / competent Authority in the operation of advertisements / bill boards / street furniture.
  - ix. To make recommendation to the Local Authority / competent Authority regarding guidelines to be adopted by those private parties or public / government agencies that sponsor beautification schemes near heritage building and precincts at public intersections and elsewhere.
  - x. To provide technical advice, if possible, on guidelines to the owner of heritage buildings / precincts to protect, conserve or restore them.
  - xi. To recommend / advice the AM&HD in preparing special designs and guidelines /publications for listed buildings, control of height and essential facade characteristics such as maintenance of special types of balconies and other heritage items of the buildings and to suggest suitable designs adopting appropriate material for replacements keeping the old form intact to the extent possible.
  - xii. To recommend / advice the AM&HD in preparing guidelines relating to design elements and conservation principles to be adhered to and to prepare other guidelines for the purposes of this regulation.
  - xiii. To advise the Local Authority on any other issues as may be required from time to time during course of scrutiny of development permissions and in overall interest of heritage / environmental conservation.
  - xiv. To appear before the government either independently or through or on behalf of the Local Authority in cases of listed buildings / heritage buildings and listed precincts /heritage precincts and listed natural features.

### **13.3 Procedure for the preparation of list of heritage sites and buildings, heritage precincts listed natural features.**

The list of heritage sites and buildings, heritage precincts and additions thereto will be declared by the Local Authority on the advice of the Committee and notified accordingly.

Provided that before the list is so declared, objections and suggestions granting at least 15 days' time from the public shall be invited by newspaper notification in at least two local newspapers. Restrictions on the Heritage precincts shall be in force with effect from the date of such newspaper notification by the Local Authority, provided further that such listing does not prevent change of ownership or usage.

The list may be supplemented from time to time by the Government on receipt of proposal from the agency concerned or by Government sue motto, provide that before the list is supplemented, objections and suggestions from the public are invited duly considered.

### 13.4 Criteria for listing of Heritage Sites:

(a)	Value for architectural, historical or cultural reasons	A
	Architectural	A(arc)
	Historical	A(his)
	Cultural	A(cul)
(b)	The date and / or period and / or design and / or unique use of the building or artifact	B
	Building or artifact	
	Period	B (per)
	Design	B (des)
	Use	B (use)
(c)	Relevance to social or economic history	C (seh)
(d)	Association with well-known persons or event	D (bio)
(e)	A building or group of buildings and / or areas of distinct architectural design and / or style, historic period or way of life having sociological interest and / or community value	E
	Style	
	Historical	
(f)	The unique value of building or architectural feature or artifact and / or being part of a chain of architectural development that would be broken if it were lost	F
(g)	Its value as a part of a group of buildings	G (gr)
(h)	Representing forms of technological development	H(tec)
(i)	Vistas of natural / scenic beauty or interest, including water-front areas, distinctive and / or planned lines of sight, street lines of sight, street line, skyline or topographical	I(se)
(j)	Open spaces sometimes integrally planned with their associated areas having a distinctive way of life which have the potential to be areas of recreation.	J
(k)	Natural Heritage sites	NH
(l)	Sites of scenic beauty	(sec)

### 13.5 Grading of the listed buildings / listed precincts:

Heritage Buildings, heritage precincts shall be graded as I, II, III as follows:-

GRADE – I	GRADE - II	GRADE – III
<p><b>A: DEFINITION:</b></p> <p>Heritage Grade – 1 comprises buildings and precincts of national or historic importance, embodying excellence in architectural style, design, technology and material, usage and / or aesthetics; they may be associated with a great historic event, personality, movement or institution. They have been and are the prime landmark of the region. All natural sites shall fall within Grade – 1</p>	<p>Heritage Grade – II (A &amp; B) comprises buildings and precincts of regional or local importance possessing special architectural or aesthetic merit or cultural or historic significance though of a lower scale in Heritage Grade-1. They are local land marks that contribute to the image and identity of the region. They may be the work of master craftsmen or may be models of proportion and ornamentation, or designed to suit a particular climate.</p>	<p>Heritage Grade – III comprises building and precincts of important for townscape; they evoke architectural aesthetic or sociological interest though not as much as in Heritage Grade – II. These contribute to determine the character of the locality and can be representative of lifestyle of a particular community or region and, may also be distinguished by setting on a street line, or special character of the facade and uniformity of height, width and scale.</p>
<p><b>Objective –</b> Heritage Grade-1 richly deserves careful preservation.</p>	<p>Heritage Grade-II deserves intelligent Conservation</p>	<p>Heritage Grade-III deserves protection unique features and attributes.</p>
<p><b>Scope for changes-</b> Interventions would be permitted to enter on the</p>	<p>Grade-II. (A). Internal changes, and adaptive reuse will be generally allowed, but external</p>	<p>External and internal changes and adaptive reuse would generally be allowed. Changes</p>

<p>exterior or interior unless it is necessary in the interest of strengthening, and prolonging, the life of the buildings or precincts or any part or features thereof. For this purpose, absolutely essential and minimal changes would be allowed and they must be in accordance with the original.</p>	<p>changes will be subject to scrutiny. Care would be taken to ensure the conservation of all special aspects for which it is included in Heritage.</p> <p>Grade-IIIB)-</p> <p>In addition to above extension or additional buildings in the same plot or compound could, in certain circumstances, be allowed provided that the extension / additional building is in harmony with (and does not detract from) existing heritage buildings(s) or precincts especially in terms of height and facade.</p>	<p>can includes extensions, additional buildings in the same plot or compound provided that extension/additional building is in harmony with and does not detract from the existing heritage building / precinct especially in terms of height and / or facade. Reconstruction may be allowed when the building is structurally weak or unsafe or which it has been affected by accidental fire or any other calamity or if reconstruction is required to consume the permissible FSI and no option other than reconstruction is required to consume the permissible FSI and no option other than reconstruction is available.</p> <p>However, unless absolutely essential, nothing should spoil or destroy and special features or attributes for which it is placed in the Heritage List.</p>
<p>Procedure –</p> <p>Development permission for the changes would be given by the Planning Authority on the advice of the Heritage Conservation Committee to be appointed by State Government.</p>	<p>Development permission for the changes would be given by the Planning Authority in consultation with a sub-committee of the Heritage Conservation Committee</p>	<p>Development permission would be given for changes by the Planning Authority itself but in consonance with guidelines, which are to be laid down by Government in Consultation with Heritage Conservation Committee.</p>
<p>B. VISTAS / SURROUNDING DEVELOPMENT:</p> <p>All development in areas surrounding Heritage Grade-I shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade-1</p>	<p>All development in areas surrounding Heritage Grade-II shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade - II</p>	<p>All development in areas surrounding Heritage Grade – III shall be regulated and controlled, ensuring that it does not mar the grandeur of, or view from Heritage Grade-III.</p>

### 13.6 Restriction on development / re-development / repairs, etc.

- i) No development or re-development or engineering operation or additions, alterations, repairs, renovation including the painting of buildings, replacement of special features or plastering or demolition of any / part thereof of the said listed buildings including compound wall or listed precincts or listed natural features shall be allowed except with the prior written permission of the Local Authority. Before granting any such permission, the Local Authority shall consult the Committee and shall act on its advice.
- ii) Provided that before granting any permission for demolition or major alterations/ additions to listing buildings (or buildings within listed precincts), or construction at or near any listed natural features, or alteration of boundaries of any listed natural features, objections and suggestions from the public shall be invited by publishing prominently in two local newspapers and duly considered by the Committee.

iii) Provided that only in exceptional cases, for reasons to be recorded in writing, to the Planning / Local / Competent Authority may refer the matter back to the Heritage Conservation Committee for reconsideration.

iv) Heritage Buildings and Buildings in Heritage Precincts which are under the control of Public Works Department / Corporation / Universities / Boards and any other Government organizations under the purview of Government of Karnataka and Government of India have to be listed and declared as Heritage Properties. However, the decision of the Heritage Conservation Committee after such re-consideration shall be final.

### **13.7 Responsibility of the owners of heritage buildings:**

It shall be the duty of the owners of Heritage Buildings and Buildings in Heritage precincts to carryout regular repairs and maintenance of the buildings at their own cost. The Government or Local Authority shall not be responsible for such repairs and maintenance except for the buildings owned by the Government, or Local Authority.

### **13.8 Regulations for specified heritage precincts / listed natural features.**

In cases of heritage precincts and where deemed necessary by the Committee, natural features notified as per the provision of this Regulation, development permissions in the form of commencement certificate shall be granted in accordance with separate regulations prescribed for respective precincts / natural features which shall be framed by the AM&HD in consultation with the Local Authority on the advice of the Committee.

These regulations should concern architectural appearances, materials, the setting of buildings, their volumes, height, planting of trees etc. They will include regulations, which will govern planning, building permissions, along with guidelines that the Committee will refer to with regard to applications for planning permission, choices of restoration methods or spatial planning.

To prepare these separate regulations, a study of the heritage precincts / listed natural features will be commissioned by the AM&HD. The study will identify the heritage issues in all its aspects, fix the objectives to be reached in order to assure the conservation of the heritage identified and to draft regulations for management and development of the heritage areas.

The Local Authority will consider the draft regulations submitted by AM&HD and obtain public opinion on it in the following manner.

The draft of the separate regulations for precincts / natural features shall be published in the official gazette and in leading newspapers for the purpose of inviting suggestions and objections from the public. The Local Authority AM&HD and the Committee shall consider all suggestions and objections received within a period of 60 days from the date of publication in the official gazette.

After consideration of the above suggestions and objections, the AM&HD in consultation with Local Authority, acting on the advice of the Committee, shall modify (if necessary) the aforesaid draft separate regulations of precincts and natural features and forward the same to the Local Authority for further submission to the Government for sanction.

Provided that pending consideration of suggestions and objections and pending final sanction from Government to the above draft regulations for precincts and natural features, the committee shall have due regard to the above draft regulations while considering applications for development / re-development, etc, of heritage buildings / heritage precincts / listed natural features.

### **13.9 Road widening and building lines:**

i) If Road widening / Building line under the Karnataka Town and Country Planning Act, 1961 are prescribed they shall be such that they will protect and not detract from the said heritage precincts / said listed natural features.

ii) If there are any new road widening / Building lines proposed in the Master Plan, the Local Authority shall consider the heritage provisions and environmental aspects while considering applications for development permissions in these precincts. Necessary steps may be taken to modify the Master Plan accordingly. Pending this action, the development of new roads shall not be carried out.

iii) No widening of the existing roads under the Karnataka Town and Country Planning Act or Master Plan shall be carried out in a manner which may affect the existing heritage buildings (even if they are not included in a Heritage Precinct) or which may affect listed natural features.

### **13.10 Master plan reservations:**

If there are Master Plan reservations shown on heritage buildings or on listed natural features, the reservation may be deleted or modified if required. The Local Authority, on the advice of the Committee, shall move the Government to get these reservations deleted / modified as need be.

**13.11      Grant of Transferable Development Rights (TDR) in cases of loss of development rights.**

If any application for development is refused under this regulation, or conditions are imposed while permitting such developments, which deprive the owner of any unconsumed Floor Area Ration (FAR), the said owner/lessee shall be compensated by the grant of a Development Rights Certificate (DRC). The extent of DRCs to be granted and used will be determined by the Rules specially framed for Transfer of Development Rights.

**13.12      Incentive uses for heritage buildings:**

In cases of buildings included in the Heritage Conservation list, falling in zones where office / commercial / hotel use is normally prohibited, if the owner / owners / lessees agree to maintain the listed heritage building in its existing state and to preserve its heritage status with due repairs and the owner / owners / lessees give a written undertaking to that effect, the owner / owners / lessees may be permitted, with the approval of the Committee, to convert part or the whole thereof of the non-commercial area within such a heritage building to commercial / office use / hotel.

Provided that if the heritage building is not maintained suitably or if the heritage value of the building is allowed to be diminished in any manner, the local authority sue motto or on the advice of the Committee shall revoke permission given for such use.

**13.13      Maintaining skyline and architectural harmony:**

Buildings within heritage precincts or in the vicinity of heritage buildings / listed natural features shall maintain the skyline and follow the architectural style (without any high rise or multi-storied development) as may be existing in the surrounding area so as not to diminish or destroy the value and beauty of, or the view from, the said heritage building / heritage precincts or natural feature. The development within the precinct / in the vicinity of heritage buildings / natural features shall be in accordance to the regulations framed by AM&HD in association with the Local Authority on the advice of the Committee.

**13.14      Repair fund:**

With a view to give monetary help for repairs of Heritage buildings a separate fund may be created which would be available to the Local Authority who will disburse funds on the advice of the Committee. Provision for such a fund may be made through Government grants / local authorities / public contributions. Nothing mentioned above should be deemed to confer a right on the owner / occupier of the plot to demolish and / or re-construct and / or make alterations / additions to his heritage building / building in a Heritage Precinct if in the opinion of the Committee, such demolition / re-construction / additions is undesirable.

So as to preserve the heritage value of the zone, the Committee shall have the power to direct, especially in areas designated by them, that the exterior design and height of buildings should have their prior approval.

**Signs and outdoors display structures / including street furniture:**

The Local Authority before permitting signs, outdoor display structures including street furniture in the heritage areas / precincts building shall strictly follow the specifications, codes, conditions give below:

**A.** National Building Code of India to apply – The display or avert signs and outdoor display structures on building and land shall be in accordance with Part X-Signs and Outdoor Display Structures of National Building Code of India.

**B.** Additional Conditions – In addition to sub-regulation A, above, the following provisions shall apply to advertisement signs in different land use zones:

i. Residential Zone: the following non-flashing neon signs with illumination not exceeding 40 watt light.

a. One nameplate with an area not exceeding 0.1 Sq.m for each dwelling unit.

b. For other uses permissible in the zone, one identification sign or bulletin

board with an area not exceeding 10Sq.m. Provided the height does not exceed 1.5m.

c. 'For sale' or 'for rent' signs for real estate, not exceeding 2 Sq.m in area provided they are located on the premises offered for sale or rent.

ii. Residential Zones with shop lines: Non-flashing business sign placed parallel to the wall and not exceeding 1 m in height per establishment.

**C.** Prohibition of advertising signs and outdoor display structures in certain cases: Notwithstanding the provisions of sub-regulations of A & B, no advertisement sign or outdoor display structures shall be permitted on buildings of architectural, aesthetic, historical or heritage importance as may be decided by the Local Authority on the advice of the Committee, including on Government buildings,

save that in the case of Government buildings only advertising signs or outdoor display structures may be permitted if they relate to the activities, purposes or related programmes of the said buildings. However, the signage should be approved by the Committee.

**D.** Provided that if the Committee so advises, the Local Authority shall refuse permission for any sign or outdoors display structure. Signs, outdoor display structures (including street furniture) will require the approval of the Committee, which may prescribe additional guidelines for the same.

### **13.15 Voluntary contribution and agreement with any voluntary organization, person or Company:**

- 1) The Local Authority may receive voluntary contributions towards the cost of maintaining any heritage building and should manage such contributions for the purpose of preservation and conservation of such heritage building.
- 2) Subject to the prior approval of the Government, Local Authority may enter into any agreement with any person or voluntary organization or company, whether incorporated or not, willing to preserve and conserve any heritage building owned by Government on such terms and conditions as the Government may determine.

## **CHAPTER - 14**

### **14. STREAMLINING OF BUILDING PLAN APPROVALS**

#### **14.1 Streamlining the building approval/sanction procedure (Ease of Doing Business)**

In order to attract investments into the country, efforts are being made by the Government to improve 'Ease of Doing Business'. In this direction, the limit of Built-up Area (BUA) for Foreign Direct Investment (FDI) has been reduced from 50,000 Sq.m to 20,000 Sq.m. In this context, the local bodies have to operate the entire building approval process in online mode, so that the building plan applications are submitted online along with building fees and other charges, and after due scrutiny, the approvals are also conveyed online.

Further, external bodies like Fire and Emergency Services Department, Airports Authority of India (AAI), Metro Rail Corporation (MRC), Ministry of Environment, Forest and Climate Change (MoEFCC), Karnataka State Pollution Control Board (KSPCB), Heritage Conservation Committee (HCC), National Monuments Authority (NMA), Urban Art Commission (UAC), etc. shall grant No Objection Certificate (NOC)/ approvals on the proposed building plans to the local bodies. All such external bodies are mandated to prepare online NOC systems compatible to and integrated with that of the local bodies and the desired information is to be sent to the concerned external bodies and their comments/ NOC/ approval are to be received online so that there is no need for building proponents to pursue matter with local bodies or external agencies. The specific requirements of the external bodies are to be added in the Common Application Form (CAF) of the local body so that building proponent has to file all information at a single customized online application. The objective is to make the whole process simplified and streamlined to ensure ease in getting the approvals for building license within stipulated time.

#### **14.2 Clearances at Master Plan level**

Individual construction proposals should not generally require separate clearances from various authorities each time. Such clearances should be integrated into the Zoning Regulations of the Master Plan of the concerned Local Planning Area. The areas unaffected by any of the restrictions should be clearly marked out and mapped, preferably on a GIS platform. Area zones of differential control regulations (within the city) by any of these agencies may also be mapped accordingly. This will result in a composite map of the city with various control regulations as per the various agencies clearly marked on the map. Thus, the sites which are located outside these restricted/regulated areas would not require availing clearance from the respective authorities, thereby reducing the clearance process significantly.

Following are the clearances which should be integrated into the city Master Plan-

**Table 14.1 Clearances from various agencies proposed to be integrated in Master Plans**

<b>S1 No.</b>	<b>Name of Agency</b>	<b>Type of Clearance</b>	<b>Area of Influence</b>
1.	National Monuments Authority through Competent Authority	Ancient Monument approval	As prescribed in the AMASAR (Amendment and Validation) Act, 2010 for protection of monuments
2.	Ministry of Environment	Environment Clearance (EC)	As prescribed in the statutory provisions for EIA and clearance based on the size of the project in accordance with Environment protection Act, 1986

3.	Ministry of Defence	Defence Clearance	Area in and around Defence Establishments as identified by MoD.
4.	Coastal Management Authority	Zone NOC (if near sea/coastal areas)	Area under the CRZ regulations.
5.	NHAI/PWD	Road access	Buffer zones as prescribed by NHAI along National Highways.
6.	Ministry of Railways	Area clearance	Buffer zones as prescribed by Railways along Rail tracks/depots/yards etc.

Efforts are being made at the Government of India level to coordinate with all the central ministries and their organizations so that they streamline their own internal processes to issue no objection etc. where ever required by law. The efforts are mainly focused on delegating the powers at appropriate levels, establishing an online application process for time bound delivery, creating public awareness about their requirements, reviewing the restrictions and reducing them, sharing the data and norms with local authorities to be incorporated in Zoning Regulations.

Recognizing the concern for streamlining the procedures for clearances to be obtained from various departments in least possible number of procedures and number of days, the following model shall be adopted so that the entire process of Pre and Post-Construction approvals shall be completed within one month. The detailed timelines for building licence and occupation certificate are provided in **Appendix-VIII**

#### **14.3 Risk Based Classification of building proposals**

There is a need to make provisions for fast-tracking building permission procedures for all non-automatic approvals. Therefore, in the spirit of 'Ease of Doing Business', the buildings have been classified further on the basis of risk parameters/ risk based classification to clear the building permits on fast track system. This kind of classification shall be used for fast tracking the sanction of building plans.

##### **14.3.1 Residential Buildings**

**For approval of the residential plotted and group housing buildings, risk based classification shall be as per Table 14.2 –**

**Table 14.2 Risk Matrix for different Residential buildings**

Risks		Very Low	Low	Moderate	High
Criteria	Parameters				
Size of the Plot	Square Meters	Below 105 m <sup>2</sup>	105-500 m <sup>2</sup>	Above 500 m <sup>2</sup>	All sizes
No. of Floors/ Height of Building	(G+no. of floor)	(G+2)	(G+ 3)	(G+ 4)	(G+ 5) or above 15m height buildings
Use of the premise	Various Categories	Residential Plotted	Residential Plotted	Residential Plotted	Group Housing

**Fast Tracking Tools:**

**For Very Low Risk Buildings:**

The process prescribed in **clause 3.15** shall be followed.

**For Low Risk Buildings:**

A Competent professional (qualification & competence as per Annexure-E) shall be empowered to issue the building license, but only after submitting the plan along with requisite documents and fees to the concerned local body. If the owner/ professional desires to get the building plan sanctioned by the local body, building plans prepared by a qualified architect/ engineer will have to be submitted to the concerned local body along with the fees and other requisite documents and the local body shall grant the building permit within 10 days

**For Moderate Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building permit within 20 days.

**For High Risk Buildings:**

Clearance from Fire department and other necessary clearances from AAI, NMA and other agencies have to be obtained. Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building permit within 30 days.

**14.3.2 Storage/Warehouse Buildings**

For approval of the buildings meant for use as storage buildings/warehouses/go down, risk based classification shall be as per **Table 14.3** –

**Table 14.3 Risk Matrix for Storage/Warehouses**

Risks	Very Low	Low	Moderate	High
Covered Area on all floors/Built-up area	Up to 250m <sup>2</sup>	Above 250m <sup>2</sup> and up to 2000m <sup>2</sup>	Up to 2000m <sup>2</sup>	Above 2000m <sup>2</sup>
Height of building	Below 15m	Below 15m	Below 15m	Below 15m
Abutting Road width	Min. 12m	Min. 12m	Min. 12m	Min. 12m
Type of Material Storage	Category A	Category A	Category B (Stacking height-Medium)	Category B (Stacking height-High)

*Note:*

- i. The level of Risk is classified according to the material stored in the warehouse/storehouse. Material shall be classified according to the Categories defined in **Appendix-XVII**.
- ii. The Urban Local Body shall empanel professionals as notified by the Government.
- iii. The building application processing fees shall be as prescribed in **Appendix-VII**.

**Fast Tracking Tools:**

**For Very Low Risk Buildings:**

A competent professional (qualification & competence as notified by the Government) shall be empowered to issue the building license, but only after submitting the plan along with requisite documents and fees to the concerned local body. If the owner/ architect/ engineer desires to get the building plan sanctioned by the local body, he shall apply online to the local body and the local body shall grant the building license within 10 days.

**For Low Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 20 days.

**For Moderate Risk Buildings:**

Building plans will have to be prepared by a competent professional and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 20 days.

**For High Risk Buildings:**

Building plans will have to be prepared by a qualified architect and the building plans will have to be submitted to the concerned local body along with the fees and other requisite documents. The local body shall grant the building license within 30 days.

**14.3.3 Industrial Buildings**

For approval of the buildings meant for use as storage buildings /warehouses/godowns, risk based classification shall be as per **Table 14.4**

**Table 14.4 Risk Matrix for Industries**

Risks		Low	Moderate	High
Criteria	Parameters			
Size of the Plot	Square Meters	up to 350 m <sup>2</sup>	Above 350 m <sup>2</sup>	All sizes
Height of building	Meters	Less than 15m	upto 15m	Above 15m
Abutting Road width	Meters	Min. 12m	Min. 12m	Min. 12m

*Note:*

- i. The level of Risk is classified according the size and height of the industrial building proposed.
- ii. The Urban Local Body shall empanel professionals as notified by the Government.
- iii. The building application processing fees shall be derived by an automated built-in calculator in the online system.

#### **Fast Tracking Tools:**

##### **For Low Risk Buildings:**

1. Deemed Approval with Self-Certification
2. Plans to be submitted along with Structural drawings which does not require sanction

##### **For Moderate Risk Buildings:**

1. Plans to be submitted to the *empanelled professional*.
2. Fire/Structural safety certification by Fire Services/ Structural Engineers
3. Approval to be granted within 10 working days by the empanelled professional.
4. Approved plan to be submitted to ULB/DA.

##### **For High Risk Buildings:**

1. Online application
2. Immediate acknowledgement by software
3. Fire/Structural safety certification by Fire Services/ Structural Engineers
4. Approval by ULB/DA within 20 working days.

#### **14.4 Other Suggestions to enhance ease of doing business:**

Some other suggestions, regarding Fast-Track construction licenses are:

##### **14.4.1 ‘Citizens’ Charter**

A ‘**Citizens’ charter** lists out the timelines and upper limits of time for the delivery of citizen services of the organization. The objective of issuing the charter is to improve the quality of public service in terms of timely delivery. Such charters shall be brought out by all the Local Body to maintain high standards of accountability and transparency. The standards of service to be provided, the maximum number of days required for building approvals and the standards procedures shall be listed out in the citizens’ charter.

##### **14.4.2 Capacity building**

Capacity building measures are to be adopted for such functionaries to identify Training Needs (TNA) and other technical requirement of duties that they are required to discharge. Fresh recruitments commensurate to the technical qualification/ experience are to be made by the State Government, if there is complete absence of the technical expertise needed for the said services.

##### **14.4.3 Empowered Committees**

The Authorities may also consider constituting ‘Empowered Committees’ or ‘Peer Expert Groups’ for undertaking scrutiny and approval. This committee can be manned as per the requirement and area of more than one municipality can be put under its jurisdiction.

##### **14.4.4 Simplification of bye-laws**

The building Bye-Laws need to be simplified for easy comprehension of lay person as well as professionals involved in developmental activities. The simplification process should also include the process of application, the filling up of forms and streamlining the process of application.

## **CHAPTER - 15**

### **15. CLIMATE RESILIENT CONSTRUCTION – INTEGRATION OF ENVIRONMENTAL CLEARANCE WITH SANCTION**

Land, Air, Noise, Water, Energy, biological/ socio-economic/ solid / other waste management are the main facets considered in relation to Pre, during and Post Building Construction for Sustainable Environment Management. Therefore, it is necessary for the building process to ensure compliance to various conditions laid down by the Ministry of Environment, Forest and Climate Change.

The building construction sector is a major contributor towards carbon footprints which affects climate change. India is committed towards mitigating the effects of climate change and moving towards internationally accepted norms for environmental friendly building construction. Currently this objective of environmental safeguard is achieved through obtaining a specific environmental clearance (EC) for any construction project having a size of more than 20,000 Sq.m. This is administered under notification of Ministry of Environment, Forest and Climate Change.

With rapid urbanisation and growth of Indian economy, it is anticipated that the construction activity will experience a proportionate growth. Government is also committed towards streamlining of clearances for buildings and real estate sector and empowering the urban local bodies with an objective of Ease of Doing Business.

#### **Integration of environmental condition in building bye-laws:**

- 1) When the State Governments notifies the bye-laws and rules concurred by the Ministry of Environment, Forest and Climate Change, the Central Government may issue an order stating that no separate environmental clearance is required for buildings to be constructed in the States or local authority areas.
- 2) The local authorities like Development Authorities, Municipal Corporations, may certify the compliance of the environmental conditions prior to issuance of Completion Certificate, as applicable as per the requirements stipulated for such buildings based on the recommendation of the Environmental Cell constituted in the local authority.
- 3) The State Governments where bye-laws or rules are not framed may continue to follow the existing procedure of appraisal for individual projects and grant of Environmental Clearance for buildings and constructions as per the provisions laid down in this notification.
- 4) For the purpose of certification regarding incorporation of environmental conditions in buildings, the Ministry of Environment, Forest and Climate Change may empanel through competent agencies, the Qualified Building Environment Auditors (QBEAs) to assess and certify the building projects, as per the requirements of this notification and the procedure for accreditation of Qualified Building Auditors and their role as given at **Appendix-XV**
- 5) In order to implement the integration of environmental condition in building bye-laws, the State Governments or Local Authorities may constitute the Environment Cell (herein after called as Cell), for compliance and monitoring and to ensure environmental planning within their jurisdiction.
- 6) The Cell shall monitor the implementation of the bye-laws and rules framed for Integration of environmental conditions for construction of building and the Cell may also allow the third part auditing process for oversight, if any.
- 7) The Cell shall function under the administrative control of the Local Authorities.
- 8) The composition and functions of the Cell are given at **Appendix-XVI**.
- 9) The Local Authorities while integrating the environmental concerns in the building bye-laws, as per their size of the project, shall follow the procedure, as given below:

#### **15.1 Environmental conditions for compliance during Building approvals**

The Ministry of Environment, Forest and Climate Change has now decided to integrate the environmental concerns into building plan approval process and empowering the concerned local body/development authority to approve and certify compliance of stipulated requirements. The new building construction proposals are classified in the following 3 categories:-

- 1) **Building Category '1':** Built-up Area 5,000 Sq.m to < 20,000 Sq.m
- 2) **Building Category '2':** Built-up Area ≥ 20,000 Sq.m to 50,000 Sq.m
- 3) **Building Category '3':** Built-up Area ≥ 50,000 Sq.m to 1,50,000 Sq.m

#### **15.1.1 BUILDINGS CATEGORY '1' (5,000 to < 20,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.1** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be

submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. Thereafter, the local authority may issue the building License incorporating the environmental conditions in it and allow the project to start based on the self-declaration and certification along with the application. After completion of the construction of the building, the project proponent may update **Form-IIb** based on audit done by the Qualified Building Environment Auditor and shall furnish the revised compliance undertaking to the local authority. Any noncompliance issues in buildings less than 20,000 square meters shall be dealt at the level of local body and the State through existing mechanism.

#### **15.1.2 BUILDINGS CATEGORY '2' (>20,000 to < 50,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.2** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. The fee for environmental appraisal will be deposited in a separate account. The Environment Cell will process the application and present it in the meeting of the Committee headed by the authority competent to give building License in that local authority. The Committee will appraise the project and stipulate the environmental conditions to be integrated in the building License. After recommendations of the Committee, the building License and environmental clearance will be issued in an integrated format by the local authority. The project proponent shall submit Performance Data and Certificate of Continued Compliance of the project for the environmental conditions parameters applicable after completion of construction from Qualified Building Environment Auditors every five years to the Environment Cell with special focus on the following parameters:-

- (a) Energy Use (including all energy sources).
- (b) Energy generated on site from onsite Renewable energy sources.
- (c) Water use and waste water generated, treated and reused on site.
- (d) Waste Segregated and Treated on site.
- (e) Tree plantation and maintenance.

After completion of the project, the Cell shall randomly check the projects compliance status including the five years audit report. The State Governments may enact the suitable law for imposing penalties for non-compliances of the environmental conditions and parameters. The Cell shall recommend financial penalty, as applicable under relevant State laws for non-compliance of conditions or parameters to the local authority. On the basis of the recommendation of the Cell, the local authority may impose the penalty under relevant State laws. The cases of false declaration or certification shall be reported to the accreditation body and to the local body for blacklisting of Qualified Building Environment Auditors and financial penalty on the owner and Qualified Building Environment Auditors. No Consent to Establish and Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 will be required from the State Pollution Control Boards for residential buildings up to 1,50,000 square meters.

#### **15.1.3 BUILDINGS CATEGORY '3' (> 50,000 to < 1,50,000 Square meters)**

A Self Declaration Form to comply with the environmental conditions as stipulated in **Table 15.3** along with **Form-IIb** and certification by the Qualified Building Environment Auditor to be submitted online by the project proponent besides application for building license to the local authority along with the specified fee in separate accounts. The fee for environmental appraisal will be deposited in a separate account. The Environment Cell will process the application and present it in the meeting of the Committee headed by the authority competent to give building License in that local authority. The Committee will appraise the project and stipulate the environmental conditions to be integrated in the building License. After recommendations of the Committee, the building License and environmental clearance will be issued in an integrated format by the local authority.

The project proponent shall submit Performance Data and Certificate of Continued Compliance of the project for the environmental conditions parameters applicable after completion of construction from Qualified Building Environment Auditors every five years to the Environment Cell with special focus on the following parameters:-

- (a) Energy Use (including all energy sources).
- (b) Energy generated on site from onsite Renewable energy sources.
- (c) Water use and waste water generated, treated and reused on site.
- (d) Waste Segregated and Treated on site.
- (e) Tree plantation and maintenance.

After completion of the project, the Cell shall randomly check the projects compliance status including the five years audit report. The State Governments may enact the suitable law for

imposing penalties for non-compliances of the environmental conditions and parameters. The Cell shall recommend financial penalty, as applicable under relevant State laws for non-compliance of conditions or parameters to the local authority. On the basis of the recommendation of the Cell, the local authority may impose the penalty under relevant State laws. The cases of false declaration or certification shall be reported to the accreditation body and to the local body for blacklisting of Qualified Building Environment Auditors and financial penalty on the owner and Qualified Building Environment Auditors. No Consent to Establish and Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 will be required from the State Pollution Control Boards for residential buildings up to 1,50,000 square meters.

A local Authority, i.e. ULB/DA/any other body authorized to sanction building plans shall approve the building plans by ensuring the stipulated conditions in **Table 15.1, 15.2 and 15.3** for the respective categories of buildings (area mentioned against each building category is the total constructed area of the building including car parking area)

**Table 15.1: Environmental Conditions for Building and Construction  
(Building Category '1': 5,000Sqm to < 20,000S.qm)**

<b>Sl. No.</b>	<b>Medium</b>	<b>Environmental conditions</b>
1	Topography Natural Drainage	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	A complete plan for rain water harvesting, water efficiency and conservation should be prepared. Use of water efficient appliances should be promoted with low flow fixtures or sensors. The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority. <u>All recharge should be limited to shallow aquifer</u>
2(a)		At least 20% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.

4	Sewage Treatment Plant	<p>Onsite sewage treatment of capacity of treating 100% waste water to be installed.</p> <p>Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.</p>
5	Energy	<p>Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.</p> <p>All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances – BEE Star and Energy Efficient Appliances)</p> <p>Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design.</p> <p><u>Wall, window, and roof u-values shall be as per ECBC specifications.</u></p>
5(a)		<p>Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy.</p> <p>If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.</p>
5(b)		<p>Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.</p>
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p>

		All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask. For indoor air quality, the ventilation provisions as per National Building Code of India shall be made.
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species.
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.

**Table 15.2: Environmental Conditions for Building and Construction  
(Building Category '2': ≥ 20,000 Sq.m to 50,000 Sq.m)**

<b>Sl. No.</b>	<b>Medium</b>	<b>Environmental conditions</b>
1	Topography Natural Drainage	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	A complete plan for rain water harvesting, water efficiency and conservation should be prepared. Use of water efficient appliances should be promoted with low flow fixtures or sensors. The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority. All recharge should be limited to shallow aquifer
2(a)		At least 25% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.
4	Sewage Treatment Plant	<p>Onsite sewage treatment of capacity of treating 100% waste water to be installed.</p> <p>Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.</p>
5	Energy	<p>Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.</p> <p>All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances – BEE Star and Energy Efficient Appliances)</p> <p>Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design.</p> <p>Wall, window, and roof u-values shall be as per ECBC specifications.</p>
5(a)		<p>Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy.</p> <p>If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.</p>
5(b)		<p>Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.</p>
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to</p>

		<p>suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p> <p>All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p> <p>For indoor air quality, the ventilation provisions as per National Building Code of India shall be made.</p>
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	<p>A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained.</p> <p>The existing trees will be counted for this purpose. Preference should be given to planting native species.</p>
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.
8	Top soil preservation and reuse	Top soil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
9	Transport	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.</p> <ol style="list-style-type: none"> <li>1. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>2. Traffic calming measures.</li> <li>3. Proper design of entry and exit points.</li> <li>4. Parking norms as per local regulation.</li> </ol>

**Table 15.3: Environmental Conditions for Building and Construction  
(Building Category '3': ≥ 50,000 Sq.m to 1,50,000 Sq.m)**

Sl. No.	Medium	Environmental conditions
1	Topography Natural Drainage	<p>The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site. No construction is allowed on wetland and water bodies. Check dams, bio swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.</p> <p>Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.</p>
2	Water conservations- Rain Water Harvesting and Ground Water Recharge	<p>A complete plan for rain water harvesting, water efficiency and conservation should be prepared.</p> <p>The local bye-law provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 Sq.m of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.</p> <p>All recharge should be limited to shallow aquifer.</p>

2(a)		At least 30% of the open spaces (setback area) shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
2(b)		Water efficient appliances shall be used. Low flow fixtures or sensors be used to promote water conservation.
2(c)		Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3	Solid Waste Management	Solid waste: Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. The provisions of the Solid Waste (Management) Rules 2016 and the e-waste (Management) Rules 2016, and the Plastics Waste (Management) Rules 2016 shall be followed.
3(a)		All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
3(b)		Treatment of wet waste and sanitary waste on site (organic dry waste also is preferred) using Organic waste composter/Vermiculture pit or any other approved technology shall be installed with a minimum capacity of 0.3 kg /person/day must be installed.
4	Sewage Treatment Plant	Onsite sewage treatment of capacity of treating 100% waste water to be installed. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per CPCB norms. Natural treatment systems shall be promoted. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organisation (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
5	Energy	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. All lighting and other electric fixtures shall be of low energy consumption (Electrical Appliances - BEE Star and Energy Efficient Appliances) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5(a)		Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 5% of the demand load calculated based on the peak load calculated from the hourly power load chart prepared for the project by considering permissible diversity in usage and occupancy. If the required power generation cannot be done within the project site, the same can be generated from outside the project site and the credit can be availed for the project.
5(b)		Solar water heating shall be provided to meet the total hot water demand of the commercial and institutional building. Residential buildings are also to meet its hot water demand from solar water heaters, unless additional power supply from renewable energy sources is provided equal to the power requirement of electric water heaters.

		Alternatively, if any other hybrid system (including other cost-efficient technologies) is proposed for hot water generation instead of solar water heating system, additional power supply from renewable energy sources shall be provided equal to the power requirement for operating such hybrid or other systems for hot water generation.
5(c)		<p>Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include fly ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.</p> <p>Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 as amended from time to time.</p>
6	Air Quality and Noise	<p>Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 m height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Wheel washing for the vehicles used be done.</p> <p>Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p> <p>Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p> <p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</p> <p>All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p> <p>For indoor air quality, the ventilation provisions as per National Building Code of India.</p>
6(a)		The location of the DG set and exhaust pipe height shall be as per the provisions of the CPCB norms.
7	Green cover	A minimum of 1 tree for every 80 Sq.m. of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species
7(a)		Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained.
8	Top Soil Preservation and Reuse	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
9	Transport	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks.</p> <p>Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.</p> <ol style="list-style-type: none"> <li>1. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.</li> <li>2. Traffic calming measures.</li> <li>3. Proper design of entry and exit points.</li> <li>4. Parking norms as per local regulation.</li> </ol>

10	Environment Management Plan	An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified in item number 1 to 9 above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.
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**Note:** The solid waste management system and waste water management system proposed in the above tables or as notified by the government (along with monitoring mechanism for the effective functioning of the systems) shall be followed.

By Order and in the name of the Governor of Karnataka

**NAGARAJ**  
Under Secretary to Government  
Urban Development Department.

**Annexure-A**  
**Occupancy Categorization of Buildings for Water and Other Requirement for Fire Fighting**

<b>Zone-I</b>	<b>Zone-II</b>	<b>Zone-III</b>
<b>GROUP 'A': RESIDENTIAL</b>	<b>GROUP 'A' : RESIDENTIAL</b>	<b>GROUP 'A' : RESIDENTIAL</b>
A1 Lodging and Rooming House A2 One or two family private A3 Dormitories A4 Apartment Houses	A5 Hotels	F2 Shops and stores, etc. above 500 Sq.m. floor area F3 Underground shopping Centers
<b>GROUP 'B' : EDUCATIONAL</b>	<b>GROUP'C' : INSTITUTIONAL</b>	<b>GROUP 'G' : INDUSTRIAL</b>
B1 Schools up to higher secondary level	C1 Hospitals and Sanitaria (More than 100 beds)	G3 High hazard Industries
<b>GROUP'C' INSTITUTIONAL</b>  C1 Hospital & Sanitaria (upto 100beds) C2 Custodial Institutions C3 Penal& mental Institutions	<b>GROUP 'D' ASSEMBLY BUILDINGS</b>  D1 For more than 1000 persons with permanent stage and fixed seats D2 For less than 1000 persons with permanent stage and fixed seats	<b>GROUP 'H' STORAGE BUILDINGS</b>
<b>GROUP 'D' ASSEMBLY BUILDINGS</b>  D3 Upto 300 persons without permanent stage and fixed seats D4 Above 300 persons without permanent stage and fixed seats	<b>GROUP 'E' BUSINESS BUILDINGS</b>  E1 Offices, Banks, etc. E2 Laboratories, Libraries, etc. E3 Telephone Exchanges	<b>GROUP 'J' HAZARDOUS BUILDINGS</b>
<b>GROUP 'E' BUSINESS</b> E3 Computer Installations E5 Broadcasting stations	<b>GROUP 'F' MERCANTILE</b> F1 Shops, Stores, etc. upto 500m <sup>2</sup> floor area	
<b>GROUP 'G' INDUSTRIAL</b>  G1 Low hazard Industries	<b>GROUP 'G' INDUSTRIAL</b>	

## **Annexure-BI**

## **Fire Protection Requirements for Buildings in Zone-I Category**

## **Fire Protection Requirements for Buildings in Zone-I Category**

## Legend

O Guest Houses/Lodging having up to 20 rooms or 40 beds and below

I Height less than 15 m

II Height 15 m and above up to 24 m

### III Height above 24 m

IV Height less than 15 m and plot area less than 250 Sq.m

V Height less than 15 m and plot area 251 Sq.m and above up to 500 Sq.m

VI Height less than 15 m and plot area 501 Sq.m and above up to 1000 Sq.m

VII Height less than 15 m and plot area more than 1001 Sq.m.

VIII Height less than 15 m and plot area more than 1000 3 $\frac{1}{4}$ m<sup>2</sup>

P To be provided.

X Not to be provided.

S Sprinklers to be pr

FS Sprinklers to be provided if basement area is 200 Sq.in or more.  
FS Fully Sprinkle red.

1. To be provided if se

1. To be provided if seating capacity exceed 750.
  2. To be provided if building is more than ground floor, first floor and total covered area exceed 1500 sq. m
  3. To be provided in building where total covered area exceeds 1000 sq. m or Building is more than ground floor except group housing.
  4. To be provided if building is ground floor, first floor and total covered area exceeds 300 m.
  5. To be provided if building is more ground floors.
  6. To be provided in building except educational buildings.
  7. In case seating capacity is 1000 persons minimum or covered area above 1500 Sq.m or basement area 200 Sq.m and more (other than places or worships).
  8. To be provided for E-4 and E-5 buildings but not required if building is fully sprinkled.
  9. To be provided for E-4 and E-5 buildings.
  10. 25,000 lt. capacity underground water storage tank to be provided.
  11. 50,000 lt. capacity underground water storage tank to be provided.
  12. To be provided where ever sprinklers are not installed.
  13. Terrace tank of 5,000 lt. capacity to be provided, if sprinklers and installed. The capacity shall be accordingly increased.

## **Annexure-BII**

## **Fire Protection Requirements for Buildings in Zone-II Category**

**Fire Protection Requirements for Buildings in Zone-II Category.**

<b>Sl. No</b>	<b>Measures</b>	<b>Group-E: Business E1, E2, E4</b>			<b>Group-F: Mercantile</b>	<b>Group-G. Industrial G2</b>				
		<b>VII</b>	<b>VIII</b>	<b>IX</b>	<b>X</b>	<b>XI</b>	<b>XII</b>	<b>XIII</b>	<b>XIV</b>	<b>XV</b>
1	Access	P	P	P	P	P	P	P	P	P
2	Means of Escape	P	P	P	P	P	P	P	P	P
3	Compartmentation	P	P	P	P	P	P	P	P	P
4	Refuge Area	X	X	X	X	X	X	X	X	X
5	Emergency Lights	P	P	P	P	X	X	P	P	P
6	Exit Signs	P	P	P	P	X	X	P	P	P
7	PA System with Talk Back Facility	X	P	P	X	X	X	X	X	P
8	Moefa	X	P	P	X	X	X	P	P	P
9	Extinguishers	P	P	P	P	P	P	P	P	P
10	Hose Reel	P	P	P	P1	P	P	P	P	P
11	Yard Hydrant	X	P	P	X	X	X	P	P	P
12	Down Comer	P3	X	X	X	X	X	P4	X	X
13	Wet Riser	X	P	P	X	X	X	X	P6	P
14	Fire Detection System	P3	P	P	X	X	X	X	X	P
15	Automatic Sprinkler System	S	S	FS	S	S	S	S	FS	FS
16	Under Ground Tank	X	P	P	X	X	P9X	P10	P	P
17	Over Head Tank	P	P	P	P1	P	P	P	P	P
18	Fire Pumps	X	P	P	X	X	X	P	P	P
19	Booster Pumps	P	P	P	P1	P	P	P	P	P
20	Auto D.G. Set	P	P	P	X	X	P	P	P	P
21	MCB/ELCB	P	P	P	P	P	P	P	P	P
22	Hose Boxes	P3	P	P	X	X	P	P	P	P
23	Fireman's Grounding Switch	P	P	P	P	P	P	P	P	P

**Legend**

- I Height less than 15 m. and area up to 300 sq. m on each floor.  
 II Height less than 15 m and area above 300 sq. m up to 1000 sq. m on each floor.  
 III Height less than 15 m and area above 1000 sq. m on each floor.  
 IV Height 15 m and above.  
 V Height less than 15 m  
 VI Height 15 m and above up to 30 m  
 VII Height less 15 m.  
 VIII Height 15 m. and above up to 24 m.  
 IX Height more than 24 m.  
 X Height less than 15 m. and plot area up to 750 Sq.m  
 XI Height less than 15 m. and plot area less than 250 Sq.m.  
 XII Height less than 15 m. and plot area 251 m<sup>2</sup> and above up to 500 Sq.m  
 XIII Height less than 15 m. and plot area 501 m<sup>2</sup> and above up to 1000 Sq.m.  
 XIV Height less than 15 m. and plot area more than 1001 Sq.m  
 XV Height above 15 m. and up to 18 m.  
 P to be provided  
 X not to be provided  
 S Sprinklers to be provided if basement area is 200 m<sup>2</sup> or more  
 FS Fully Sprinkle red.

1. To be provided if building is more than one floor.
2. To be provided in buildings above two floors.
3. To be provided if the building is more than ground floor, first floor and covered area exceeds 1500 Sq.m
4. To be provided if building is more than first floor and the covered area exceeds 300 Sq.m
5. To be provided for more than storeyed buildings and above.
6. To be provided if building is ground floor, first floor and above.
7. Buildings to be fully sprinkled if height exceeds 15 m.

8. To be provided if seating capacity exceeds 1000 persons.
9. 25,000 lt. capacity underground tank to be provided.
10. 50,000 lt. capacity a ground tank to be provided if riser is not provided.

**Annexure-BIII**

**Fire Protection Requirements for buildings in Zone-III Category**

Sl. N O	Measures	Group F mercantile (F2, F3)			Group G Industrial (G3)				Group H Storage		Group Hazardous	
		H<15 m	H>15 m	UG S	I	II	III	IV	H<15 m Single Storey	H<15 m More than one Storey	H<15 m Single Storey	H<15 m More than one Storey
1	Access	P	P	P	P	P	P	P	P	P	P	P
2	Means of Escape	P	P	P	P	P	P	P	P	P	P	P
3	Compartmentati on	P	P	P	P	P	P	P	P	P	P	P
4	Refuge Area	X	X	X	X	X	X	X	X	X	X	X
5	Emergency Lights	P	P	P	X	P	P	P	X	P	P	P
6	Exit Signs	P	P	P	X	P	P	P	X	P	P	P
7	PA System with Talk Back Facility	P1	P	P	X	X	X	X	X	X	P	P
8	Moefa	P1	P	P	X	X	X	P	X	X	P	P
9	Extinguishers	P	P	P	P	P	P	P	P	P	P	P
10	Hose Reel	P	P	P	P	P	P	P	P	P	P	P
11	Yard Hydrant	P	P	P	X	X	P	P	P2	P2	P	P
12	Down Comer	X	X	X	X	X	X	X	X	X	X	X
13	Wet Riser	P1	P	P	X	X	P 3	P 1	X	P3	X	X
14	Fire Detection System	X	P	P	X	X	P	P	X	X	P	P
15	Automatic Sprinkler System	FS	FS	FS	F S	F S	F S	F S	FS4	FS	FS	FS
16	Under Ground Tank	P	P	P	P 5	P 6	P 7	P	P6	P	P	P
17	Over Head Tank	P	P	X	P	P	P	P	P	P	X	P
18	Fire Pumps	P	P	P	P	P	P	P	P4	P	P	P
19	Booster Pumps	X	X	X	X	X	X	X	X	X	X	X
20	Auto D.G. Set	P	P	P	P	P	P	P	P	P	P	P
21	MCB/ELCB	P	P	P	P	P	P	P	P	P	P	P
22	Hose Boxes	P1	P	P	X	P	P	P	X	P3	P	P
23	Fireman's Grounding Switch in Lifts	P	P	P	P	P	P	P	X	P	X	P

**Legend**

U.G.S. Under Ground Shopping complex

- i) Height less 15 m. shopping complex
- ii) Height less 15 m. and plot area 251 Sq.m and above up to 500 Sq.m
- iii) Height less 15 m. and plot area 501 Sq.m. and above up to 1000 Sq.m.
- iv) Height less 15 m. and plot area more than 1001 Sq.m.

P To be provided.

X Not to be provided.

S Sprinklers to be provided if basement area is 200 Sq.m or more.

FS Fully Sprinkle red.

1. To be provided if building is more than one floor.

2. To be provided in buildings above two floors.

3. To be provided if the building is more than ground floor, first floor and covered area exceeds 1500 Sq.m
4. To be provided if building is more than first floor and the covered area exceeds 300 Sq.m
5. To be provided for more than storeyed buildings and above.
6. To be provided if building is ground floor, first floor and above.
7. Buildings to be fully sprinkled if height exceeds 15 m.
8. To be provided if seating capacity exceeds 1000 persons.
9. 25,000 lt. capacity underground tank to be provided.
10. 50,000 lt. capacity a ground tank to be provided if riser is not provided.

#### **Annexure-C**

**1. Water Requirement Criterion:** Unless otherwise specified in Annexure B, water requirement for fighting in different categories of occupancies shall be based on following.

<b>Occupancy Category</b>	<b>Sprinkler Design Discharge Density (lt./min/Sq.m.)</b>	<b>Sprinkler Design Area (Sq.m.)</b>	<b>Max. area coverage/ Sprinkler (Sq.m.)</b>	<b>No. of House Streams* Fully other Sprinkled</b>	<b>Duration of Discharge (Min.)</b>	
					<b>Fully Sprinkled</b>	<b>Wet Riser Sprinkled</b>
LEVEL-I	02.5	084	21	24	45	45
LEVEL-II	05.0	360	12	36	60	90
LEVEL-III	10.0	225	09	36	90	90

**Note:** The discharge through a standard hose stream shall be taken as 567 lt./min.

#### **2. Estimation of Total Water Requirements Fully Sprinkle red Buildings**

<b>Occupancy Category</b>	<b>Sprinkler(lt.)</b>	<b>Riser(lt.)</b>	<b>Total(lt.)</b>	<b>Wet Riser cum Down Comer (lt.)</b>
LEVEL-I	9,450	51,030	60,480 (60,000)	1,02060 (1,00,000)
LEVEL-II	1,08,000	1,02,060	2,10,060 (2,00,000)	2,04,120 (2,00,000)
LEVEL-III	2,02,500	1,02,060	3,04,560 (3,00,000)	3,06,180 (3,00,000)

#### **3. Water Storage Tanks**

1. The design of the water storage tanks shall be as laid down in National Building Code of India.
2. The capacity of underground water storage tank shall not be more than 85% of the total water requirement.
3. The capacity of overhead tank shall not be less than 15% of the total water requirement.
4. The entire water requirement can be provided in overhead tanks and pumping requirements shall be finalized in consultation with Chie Fire Officer.
5. Under ground water storage tank shall not be provided in the set back areas.

<b>Occupancy Category</b>	<b>Under Ground Static Tank</b>		<b>Over Head Tank</b>	
	<b>Fully Sp kd. (lt.)</b>	<b>Riser (lt.)</b>	<b>Fully Spkd.(lt.)</b>	<b>Riser(lt.)</b>
LEVEL-I	50,000	85,000	10,000	15,000
LEVEL-II	1,70,000	1,70,000	30,000	30,000
LEVEL-III	2,50,000	2,50,000	50,000	50,000

#### **4. Riser/Down comer**

1. The size of the riser/ down comer shall be such that velocity of flow does not exceed 5 m/second subject to a minimum of 100 mm. diameter.
2. The number of riser/down comer shall be calculated on the basis that if 30 m. of delivery hose is laid, it reaches the farthest comer of the remotest compartment on the floor.
3. The riser/down comer shall be provided in the staircase/staircase lobby in such a manner that it does not obstruct the means of escape.
4. Only single headed hydrants shall be used on the riser/down comer.
5. The size of hose to be provided with the internal hydrants shall be 50mm diameter and with 63 mm diameter instantaneous male/female couplings.
6. Diffuser branch shall only be provided in the hose boxes.
7. In case of partially sprinkle red building tapping from the wet riser is permitted for sprinkler feed.
8. In case of fully sprinkle red building separate rising mains and pumps shall bemused for sprinkler system and wet riser.

## 5. Selection of Pumps

1. Pumping requirement shall be met by a single pump or combination of pumps.
2. If more than one pump is installed to meet the pumping requirement they shall be so arranged that they come into operation one after another depending upon fall in pressure in the mains and the combined pumping capacity shall be 20% more than the actual pumping capacity needed.
3. Jockey pump shall be selected to give minimum 3% and maximum 5% of aggregate pumping requirement at the same pressure to that of the main pump subject to maximum discharge of 450 LPM.
4. Standard pumps shall only be used having discharge capacity as 180LPM, 2280LPM 2850 LPM & 4550 LPM.
5. The pump shall be capable of giving the pressure as shown in the table below:

<b>Occupancy Category</b>	<b>Pressure* At Terrace Level</b>	
	<b>Fully Spkd. (Kgf./Cm<sup>2</sup>)</b>	<b>Riser (Kgf./Cm<sup>2</sup>)</b>
LEVEL-I	3.5	3.5
LEVEL-II	3.5	5.5
LEVEL-III	3.5	7.0

\* Orifice plates shall be installed at the hydrants on rising mains / yard hydrants to ensure that the pressure does not exceed 7 Kgf./Cm<sup>2</sup>.

## Annexure-D

### Questionnaire for High Rise Buildings/Other Buildings

#### Fire Service Headquarters

1. Name of the building .....
2. Address of the building.....
3. Name and address of builder/promoter.....
4. Name and address of owners /occupiers of individual flats .....
5. Plot area .....
- (a) Title .....
- (b) Land use (in case of residential building indicate no. of dwelling units.....
6. Covered Area (at grade level) .....
7. Height of tile building.....
8. a) Overall height (from grade level up to terrace level ) .....
9. b) Whether set back areas are conforming to unified building byelaws.....
- c) Area of the basement .....
- d) Whether any piazza is proposed? if so, details of the level of piazza and ramp etc. be indicated .....
10. Number of floors (including ground floor) .....
11. Occupancy use (please mention separately, use for basement and floors)  
.....
12. Covered area of typical floor .....
13. Parking areas (please give details) .....
14. Details of surrounding properties / features  
.....

<b>Compass direction In relation to the building</b>	<b>Type of Property/ feature</b>	<b>Height in case of building</b>	<b>Distance wall to wall from building</b>	<b>Any other information</b>
North				
South				
East				
West				

15. Approach to proposed building width of the road and connecting roads, if any.....
16. Please give details of water supply available exclusively for the fire fighting  
.....
17. Has wet riser(s) been provided? If so, please indicate the number of risers and internal dia of each .....
18. Has any down comer been provided? If so, please give details including pump capacity.....

19. Please indicate the present arrangement for replenishment of water for fire fighting.....
20. Is a public or other water storage facility available nearby? if so, please give the capacity and distance from your building, also please indicate if it is easily accessible.....
21. Please give any other information regarding availability of water supply for fire fighting.....
22. Have internal hydrants on each floor including basement (s) and terrace.
- a) No. of hydrants on each floor including basement (s) and terrace .....
  - b) Bore and length of each floor including basement(s) .....
  - c) Size (bore) and type of nozzle fitted to each hose reel.....
  - d) Is the hose reel connected directly to the riser or to the hydrant outlet?  
.....
23. Has fire hose been provided near each hydrant? if so, Please indicate .....
- a) The type hoses.....
  - b) The size (bore) of hose .....
  - c) The length of each hose .....
24. Have branch pipes been provided? if so, please indicate
- a) The type of branch pipe.....
  - b) Size of nozzle fitted to each branch.....
- 25 a) If the basement is used for Car / Scooter parking or storage.  
Has it been sprinkled?.....
- b) Whether any cubicles proposed in the basement? If so, the area of each cubical be indicated?  
.....
  - c) Whether segregation/compartimentation of the basement has been provided? If so, please give details.....
26. Is the building equipped with automatic fire detection and alarm system? If so, please indicate
- a) The type of detectors used .....
  - b) The standard to which the detectors conform .....
  - c) The code to which the installation conform .....
27. Have manual call boxes been installed in the building for raising an alarm in the event of outbreak of fire? If so, please give details.....
28. Has public address system been installed in the building with loudspeaker on each floor with talk back facility.....
29. Has an intercom system been provided between the various floors and the fire control room in entrance lobby? .....
30. Has a fire control room been provided in the entrance lobby of the building?  
.....
31. How many staircases have been provided in the building? Please indicate in each case: -
- a) Width of the stairway.....
  - b) Width of treads.....
  - c) Height of risers .....
  - d) If the treads are of the non-slip type.....
32. What is the average occupant load per floor?.....
33. Whether fire tower has been proposed? .....
34. How many lifts have been installed in the building? Please indicate in each case:
- a) The floors between which the lifts runs.....
  - b) The type of doors fitted to the lift Car and at each landing.....
  - c) Fire resistance rating of lift Car and landing doors, if known .....
  - d) Floor area of the lift car.....
  - e) Loading capacity of the lift car .....
  - f) Has communication system been installed in the lift car? .....
  - g) Has a fireman's switch been installed in the lift for grounding it in the event of fire  
.....
35. Have any stationary fire pump (s) been installed or pressuring the wet riser? If so, please indicate.
- a) The number of pumps.....
  - b) The size of suction and delivery connection of each pump .....
  - c) The output of each pump .....
36. Has the building been protected with sprinkler system, If so, detail of sprinkler pump.....

37. Has a standby source of power supply been provided? If it is through a generator, please indicate.
- The capacity (output) .....
  - The functions that can be maintained simultaneously by the use of the Generator, such as operating lift(s); fire pumps, emergency lighting etc.
  - system; exit signs; PA system etc. ....
  - Is the generator automatic in action or has to be started manually?.....
38. Has any Yard hydrant been provided from the building's fire pump? .....
39. Where more than one lifts are installed in a common enclosure have individual lifts been separated by fire resisting walls or 2 hours fire rating? .....
40. Has the lift shaft(s) lift lobby or stairwell been pressurized? If so, give details.....
41. Has the lift lobbies and staircase been effectively enclosed to prevent fire/smoke entering them from outside at any floor? .....
42. Have all exits and direction of travel to each exit been sign-posted with illuminated signs? .....
43. Has a false ceiling been provided in any portion of the building? If so, please indicate location and also mention if the material used for the false ceiling is combustible or non-combustible .....
44. Is the building centrally air-conditioned? if so, please indicate:
- The material used for construction of ducts and its fittings.....
  - The type of lining used for ducts, if any.....
  - The type of lagging used for ducts, if any for insulating any portion of the duct; please also indicate how the lagging is secured.....
  - If plenum is used for return air passage has it been protected with fire detectors? Please give details.....
  - Has a separate A.H.U. been provided for each floor?
  - Whether automatic shutdown of A. H. U. is coupled with detection system /sprinkler system.....
  - Is the ducting for each floor effectively isolated or is it continuous on more than one floor? .....
  - Are the fire dampers being provided?.....
45. Where are the switchgear and transformer located? If inside the building please indicate: .....
- If the switchgear and transformer (s) have been housed in separate compartments, effectively separated from each other and other portions of the building by a four-hour's fire resistive wall? .....
  - What precautions have been taken to prevent a possible fire in the transformer (s) from spreading? .....
  - Are transformer protected by high velocity water spray system.....
- 46 I) Where electrical cables, telephone cables wet risers / down comers pass-through a floor or wall has the spaces (apertures) round the cables /pipes been effectively sealed/plugged with noncombustible, fire resistance material?.....
- II) Ventilation
- Whether natural ventilation is relied upon? If so, give details of the vents for the stairwell life shafts.....
  - Whether mechanical ventilation has been proposed? If so, give details of the proposed system indicating the number of air changes for the basement and other floors .....
  - Whether mechanical ventilation is coupled with automatic detection system/sprinkler system? Please give details of the system.....
47. Please indicate the number and type of fire extinguishers provided at various locations and the arrangement for the maintenance of the extinguishers .....
48. Please indicate if all fire extinguishers bear the BIS mark.....
49. Whether the refugee area has been provided? If so, the floor on which provided and the total area provided floor-wise.....
50. Are the occupants of the building systematically trained in fire prevention, use of fire extinguishers and emergency procedures? If so, please give details.....
51. Does an emergency organization exist in the building? If so, please give details and append a copy of the emergency (fire) orders.....

52. Has a qualified officer been appointed for the building either individually or jointly with other building(s).....

53. Has the building been protected against lightning? If so, does the lighting protection conform to any code? Please indicate details provision of MCB and ELCB in the building.....

54. The work has not been started on site and construction will be started only after final approval of the Authority / the position of construction at site is given below:

.....  
Name and address of the consultant with Registration No.....

Owner's Signatures Signature of the Applicant / Architect /Engineer

Name..... Name.....

(In block letters) (In block letters)

Designation.....

Organization.....

Signature of Fire Consultant

Dated:

Name.....

(In block letters)

Remark of the concerned Authority. The proposal has been broadly examined. The above information is correct and the proposal is permissible as far as development Authority is concerned (Additional comments, if any, may be given below or attached):

The proposal can be considered by Fire Services at conceptual stage/is forwarded to Fire Service along with 3 sets of drawings which are according to bye-laws, Master Plan, Zonal Plan, and firefighting regulations and policy instructions of Government. The proposal involves relaxation in respect of height/set-backs/ ..... The Architect/Engineer has been advised to furnish the requisite material and documents given in the attached list, within one week time directly to the Fire Service.

Signature of Authority

Name:

Designation and office Seal:

#### **APPENDICES**

#### **APPENDIX-I**

#### **PROCEDURE FOR REGISTRATION OF VARIOUS STAKE HOLDERS WITH THE AUTHORITY**

The Stake holders to be registered with the Authority are;

- A. Land owners who intend to apply for building licence in the plot owned by them.
- B. Promoters who are developing Real estate projects within the jurisdiction of the Authority
- C. Professionals on record for preparing drawings (for building licence and for NOCs from different departments)
- D. Professionals on record for supervising the works executed in site (civil works and other services)
- E. Professionals who are interested in registering with the Authority as Empanelled Professionals to verify the site plan with reference to the site conditions, verify the works executed in site with reference to the various drawings submitted, and to certify the building licences as notified by the government.
- F. Contractors intending to undertake construction activities within the jurisdiction of the ULB (for Civil, electrical, Plumbing and Sanitation, HVAC, Fire and Emergency services)

The following procedure shall be adopted by the ULBs to register the Stake holders with the ULB;

1. The Stake holders shall register themselves with the Authority by providing their identity proof, submitting an undertaking cum affidavit (in the format prescribed by the government) and payment of the prescribed fees.
2. The landowners who intend to apply for building licence in the plot owned by them, shall submit the particulars of the plot and the building proposed to be constructed on the plot, while registering with the Authority whenever he proposed to develop a building.
3. The Promoter who intends to develop real estate project within the jurisdiction of the ULB, shall do a onetime registration with the Authority.

4. Professionals intending to prepare the required drawings and details (Architectural, Structural and Services), the Professionals intending to prepare the required drawings and details for obtaining NOCs from the concerned departments and the Professionals intending to supervise the construction of the various components of the building shall do a onetime registration with the Authority in the respective category based on the eligibility criteria of Qualification, Experience and Competence, notified by the Government.

5. Professionals who are interested in registering with the Authority as Empanelled Professionals to verify the site plan with reference to the site conditions, verify the works executed in site with reference to the various drawings submitted, and to certify the building licences as notified by the government shall do a onetime registration with the Authority in the respective category based on the eligibility criteria of Qualification, Experience and Competence, notified by the Government.

6. Contractors intending to undertake construction activities within the jurisdiction of the ULB (for Civil, electrical, Plumbing and Sanitation, HVAC, Fire and Emergency services) shall do a onetime registration with the Authority.

7. The procedure for registration and allotting the registration no. for the stake holders and the fee payable for empanelled professionals for verifying the works executed at site shall be as prescribed by the Government.

## **APPENDIX-II**

### **DETAILS OF PLANS AND OTHER PARTICULARS TO BE SUBMITTED FOR SANCTION FROM THE AUTHORITY FOR DIFFERENT TYPES OF BUILDINGS.**

#### **A – Requirements of Key Plan**

Key plan which is provided along with the drawings of the Plot Approval obtained after the commencement of the KTCP (Approval of plot) Rules 2017 shall be accepted as the Key plan which shall be part of the site plan. In case of Plot Approval obtained prior to KTCP (Approval of plot) Rules 2017, the key plan shall be prepared in a legible scale showing the location of the plot in the Master Plan containing the following features within 1 Km around the plot, namely: -

- (a) Location of all existing and proposed roads of the Master Plan mentioning the existing and proposed width and hierarchy of roads;
- (b) Location of all existing Storm Water Drains and other water bodies;
- (c) Location / Alignment of overhead or underground HT power supply lines (High Tension Electric lines);
- (d) Location / Alignment of sewerage system of ULB;
- (e) Index of drawing as specified in **Appendix-III**.

#### **B – Requirements of Site Plan**

The site plan shall be prepared in a legible scale, preferably of 1:200 or 1:500 with plan oriented in North-South direction. The Site Plan which is part of the Plot Approval obtained after the commencement of the KTCP (Approval of plot) Rules 2017 shall be accepted as the site plan for the building plan approval under these byelaws. In case of Plot Approval obtained prior to KTCP (Approval of plot) Rules 2017, the site plan shall contain the following details, namely: -

- (a) All site boundaries with dimensions, by superimposing the survey sketch issued by Revenue Department and the survey sketch prepared by conducting physical survey of plot using Total Intelligent Station. At least 3 boundary points of both the sketches should match when superimposed. The innermost boundaries of the plot derived by superimposing both the sketches shall be considered as the boundary of the plot and the area of the plot within such boundary shall be considered as the extent of the plot as existing at site;
- (b) Extent of plot, which shall be lesser of the extent as per document or as existing at site (as derived from clause ‘a’ above);
- (c) All roads abutting the plot with existing width, proposed width and center line of the road. The road widening line and building line, if any, shall be marked on the plot, if applicable, showing the portion of the plot required for road widening;
- (d) Portion of Plot to be reserved for Park and Open Spaces and Civic Amenities, if required, as per KTCP (Approval of plot) Rules 2017
- (e) Land use as per Master Plan and the permitted land use as per Zonal Regulations;
- (f) Contours of the plot at 1m. intervals along with the levels of the adjoining plots and of the abutting roads;
- (g) Location with dimensions and extent of Kharab lands within the plot;
- (h) Location of roads of the Master Plan passing through the plot, if any;

- (i) Location of all natural features such as trees, water bodies (including wells, ponds, storm water drains, etc.) quarries including buffer area, etc.;
- (j) Location of city level sewerage and H.T. lines passing through the plot including buffer area;
- (k) Railway lines within 30m of the boundary;
- (l) Eligibility for relaxation of setbacks as per Common Zonal Regulations;

The following additional details shall be incorporated in the site plan which is provided along with Plot Approval;

- (a) Building footprint (portion of the floor plan of the building projecting above the ground) for Ground coverage and setbacks and the projections in the upper floors, beyond the footprint area (in dotted line).
- (b) Details of constructions provided in the setback area of the plot, including ramps (along with slope of ramp), driveway and also the parking spaces provided in the open yard.
- (c) Details of the over ground and underground services provided such as water supply, sewerage, power supply and telecommunication system and details of the rain water harvesting system (pipelines, cables, chambers, manholes, transformer and generator yard / substation, STP and pump room, solid waste management plant, etc.).
- (d) Entry and Exit to plot with gate and entry / exit arch details.
- (e) Levels contiguous to the building and the boundaries / corners of the plot.
- (f) Details for identification of neighbouring properties.
- (g) Portion of the plot reserved for Civic Amenities.
- (c) Index of drawing as specified in **Appendix-III**.

#### **C – Requirements of Floor Plan for parking area**

The following details shall be provided in the plan of the floor showing parking area (for full or portion of the floor)

- (a) Details of entry / exit ramps (ramp from outside the building to the parking floor and ramp between parking floors, as applicable), such as number of ramps, width of the ramp and slope.
- (b) width of all driveways in the parking area and the width of the parking bays abutting the driveway.
- (c) Width of columns provided in the parking floors and clear spacing between the columns, location of staircases, lifts and toilets.
- (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
- (f) Minimum Setback line from the boundary of the plot and in case of basement floor, the distance between the boundary and the parking floor periphery.
- (g) Any other uses proposed within the parking area / floor.
- (h) no. of parking bays provided (4 wheeler and 2-wheeler), separately showing single parking, double parking (one behind the other and one above the other – mechanical parking) and automatic parking devices adopted such as car lift etc. (along with the approval of the agencies notified by the Government), as applicable.
- (i) Index of drawing as specified in Index of drawing as specified in **Appendix-III**.

#### **D – Requirements of Floor Plans of other uses**

##### **(1) Residential:**

Separate floor plans for each of the typical floors have to be prepared with the following details;

- (a) Plan of the dwelling units with areas of sub uses such as foyer, living, dining, bedroom, study, kitchen, bathroom, WC, toilet, balcony etc. mentioned separately. The carpet area (excluding exterior wall and balcony of the dwelling unit) and plinth area (including exterior wall and balcony of the dwelling unit) of the dwelling unit has to be mentioned.
- (b) Room dimensions and details of doors, windows, ventilators, duct doors and other openings shall be shown.
- (c) All common areas such as staircases and lifts, corridors / passages, service / ventilation ducts, stores, entrance lobby etc.
- (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
- (f) Minimum Setback line from the boundary of the plot and balconies projecting beyond the setback line.
- (g) No. of dwelling units in each floor (details of all types of dwelling units) and no. of typical floors.
- (h) Terrace floor plan with details of open terrace, covered terrace, staircase room, lift / lift machine room, overhead tank, toilets and other permitted constructions in the terrace floor. (If overhead tank and the lift machine room is located one level above the terrace floor, the same has to be specifically mentioned in the Terrace floor plan).
- (i) Section lines
- (j) Index of drawing as specified in **Appendix-III**.

## **(2) Commercial:**

- Separate floor plans for each of the typical floors have to be prepared with the following details;
- (a) Plan of the commercial premises with areas of sub uses such as retail display area, office area, work area, stores, toilet, etc. mentioned separately. The carpet area (excluding exterior wall and balcony of the premises) and plinth area (including exterior wall and balcony of the premises) of the premises has to be mentioned.
  - (b) Room dimensions and details of doors, windows, ventilators, duct doors and other openings shall be shown.
  - (c) All common areas such as staircases and lifts, corridors / passages, service / ventilation ducts, stores, entrance lobby etc.
  - (d) Level of floor with reference to the ground level contiguous to the building or the road level whichever is considered for the height of the building.
  - (f) Minimum Setback line from the boundary of the plot and balconies projecting beyond the setback line.
  - (g) No. of premises in each floor and no. of typical floors.
  - (h) Terrace floor plan with details of open terrace, covered terrace, staircase room, lift / lift machine room, overhead tank, toilets and other permitted constructions in the terrace floor. (If overhead tank and the lift machine room is located one level above the terrace floor, the same has to be specifically mentioned in the Terrace floor plan).
  - (i) Common toilets requirements and provisions made.
  - (j) Details of all staircases provided (width, tread, riser, landing, handrail, head room, no. of steps in each flight).
  - (k) Details of corridors / passage (minimum width required and width provided, parapet details)
  - (l) Section lines
  - (j) Index of drawing as specified in **Appendix-III.**

## **(3) Other non-residential and non-commercial:**

All details similar to that of commercial use except details of no. of premises, carpet area and plinth area of the independent premises in the floors, within the non-residential and non-commercial uses.

Index of drawing as specified in **Appendix-III.**

### **E – Requirements of Sections of Building**

Drawings for the vertical sections cut across the floor plans of the building in such a way that any one or more section drawings shall cut across all the main staircases connecting all the respective floors of the building.

Section drawings shall also be drawn across all the floors wherever the plan of a floor projects outward or recedes inward from the lower floor, including section cut across upper Ground floor and lower ground floor, if applicable.

The section shall also cut across maximum earth cut or fill areas of the plot showing the original ground level and the formed ground level with the proposed retaining wall details. The section shall also show the general foundation details of the building.

The section drawings shall mark all the building components and structural elements (foundation, walls, slab & beams, roof, etc.,) along with the dimensions. The type of material for each component shall also be mentioned.

The section drawing shall also show the ground levels contiguous to the building, average ground level contiguous to the building and also the levels of each floor. The section drawing shall also have the floor to floor height (including mezzanine floor, if applicable) and the height of the building measured from the average ground level contiguous to the building or the road level, as the case may be, to the terrace floor level or the roof level, as the case may be.

Index of drawing as specified in **Appendix-III.**

### **F – Requirements of Elevation of buildings**

Elevation drawings shall be drawn for all side elevations showing the structural features of the building visible on each elevation such as windows and other openings, slab and other architectural projections.

Height of the building with reference to ground level or road level.

Index of drawing as specified in **Appendix-III.**

### **G – Requirements of Drawings for all services provided**

#### **a – Electrical system including use of alternate energy**

Electrical drawings of all floors showing the location of electrical fixtures, switch boards, etc., both inside the specific use areas and common areas along with fixture schedule.

Details of electrical ducts (horizontal & vertical), panel room, 11KV sub-station (transformer and other requirements) and generator facilities.  
 Single line diagram of the power distribution system.  
 Details of alternate energy sources provided  
 (as detailed in **Clause 5.3**)

**b- Water Supply system**

Drawings showing Plumbing pipelines and fixtures inside the toilets of specific use areas and common areas with fixture schedules.  
 Pipeline details in Sanitary ducts and connectivity to overhead and sump tanks and connectivity from Municipal water supply line and water pumping system.  
 Details of Solar water heating system  
 (as detailed in **Clause 5.3**)

**c – Rain Water harvesting & ground water recharging system**

Drawings showing Terrace water collection, filtration and connection to sump tank or ground water recharging pits.  
 Ground water recharging  
 (as detailed in **Clause 10**)

**d – Sewerage system**

Drawings showing Drainage pipelines and sanitary fixtures inside the toilets of specific use areas and common areas with fixture schedules.  
 Inspection chambers and manholes in the ground and connectivity to Municipal sewer lines or sewage treatment plant.  
 (as detailed in **Clause 5.3**)

**e – HVAC system**

A. Floor Plan

1. Corresponds to submitted or previously approved building plans, including interior layout, room names & uses, wall & roof insulation R-values, door/window/skylight U-factors
2. Location, volume, and/or rates in CFM of exhaust, make-up air, outdoor air and combustion air
3. Location of equipment & appliances, fire, smoke and ceiling radiation dampers, grease duct wraps  
 kitchen hood exhaust duct, grease duct enclosures, suppression systems, controls, monitors, etc.
4. Duct sealing requirements stated
5. HVAC distribution via ductwork, sizing, location
  - a. Metal duct gauge, geometry (round, square, rectangular)
  - b. Flexible duct diameter, specification
  - c. Flexible connector diameter, length limitations
  - d. Underground duct construction, materials, vapor barriers, insulation (R-values), clearances, cross section, slope
  - e. Plenum construction materials and locations

B. Sections or Details

1. Insulation for duct or pipe; type, R-value labeling required on plans and in the field
2. Pipe: size, type, hydronic or gas
3. Exhaust rates in CFM
4. Kitchen hood construction information provided
5. Air transfer to corridors only as allowed by code
6. Clothes dryer exhaust duct distribution, length, access doors, etc.
7. Metal duct gauge, geometry, means of fastening, maximum length
8. Transition duct limitations & requirements
9. Grease duct wrap defined for manufacturer and type
10. Hydronic systems have floor assembly which meets minimum under-floor/slab insulation and testing requirements

### C. Equipment Information

1. Equipment schedules or similar provided which define equipment type, capacities, efficiencies, kitchen hood suppression, as well as associated air rates in CFM
2. Listing shows compliance with ASTM/UL/NFPA/ANSI etc. standards as required to be met by the code
3. Operation, setback/demand control ventilation/operational controls/interlocks sequencing of all equipment, and location of controls
4. Provision of economizer indicated if required as part of installation
5. Provision of make-up air
6. Platform & clearance locations for rooftop equipment defined
7. Roof access indicated on plans (if required)
8. Guardrail location and dimensions for roof equipment as required by code
9. Condensate disposal location indicated
10. Duct smoke detection system (if required)
11. Duct smoke detector locations, model defined, installation defined (on return only or return & supply), sequence of operation defined
12. Control panel location, model
13. Smoke control system
14. Apparatus used (based on submitted calculations)
15. Designate pressure classification of the duct system based on inches w.g.
16. Fire, smoke & ceiling radiation dampers defined for ratings, locations & operations
17. Hydronic systems fully defined for type of, length of, size of, flow rate in pipe; testing requirements addressed, under floor insulation (shall be addressed in building envelope calculations)
18. Structural weight of rooftop equipment listed on plan and associated structural design accounted for

### D. Calculations

1. Room by room heat loss calculations, not just an overall summary
2. Heat gain calculations may be done by area served by appliance (if AC provided)
3. Transmission plus greater of infiltration or ventilation (furnace sizing)
4. Structural calculations provided to verify that weight of proposed appliances does not exceed load bearing capability of roof, mezzanine, platform, etc.
5. Volume of exhaust and outdoor air intake are approximately the same
6. Smoke control system sizing
7. Outside air required for each room/space where different occupancies are served by one appliance

### E. Ventilation Criteria

1. Mechanical ventilation rates used meet minimums listed in SPS Table 364.0403 (or as justified and found acceptable by the Dept.)
2. Natural ventilation as allowed by SPS Table 364.0402
3. Exceptions met and clearly stated on plans or in calculations

### F. Minimum Clearances

1. Exhaust & outside air intakes to property lines & buildings
2. Distance between intake to exhaust ventilation openings
3. Overhead clearances (suspended appliance)
4. Location of intakes above ground/roof
5. Combustible material clearances to heat-producing appliance

### G. Type of fuel used by HVAC equipment

1. Natural Gas
2. Electricity
3. Fuel Oil
4. Wood or pellets

**H. Combustion Air**

1. Provide calculations used to determine if internal building air can be used, or if outside combustion air is required to be provided
2. Define number, location and size of transfer ducts, and louver/grill openings

**I. Balancing Report is Required to be On-Site****J. Maintenance & Operation Manuals are Required to be Provided to Owner**  
(as detailed in **Clause 5.3**)**H – Requirements of Landscape plan**

Land scape plan shall be enclosed with the application for building licence in case of building proposed in plots above 4000 sqm. The following details shall be provided in the land scape plan

- (a) Building foot print and all other constructions proposed in the yard including details of the over ground and underground services provided such as water supply, sewerage, power supply and telecommunication system and details of the rain water harvesting system (pipelines, cables, chambers, manholes etc.)
- (b) Details of the parking spaces and other concreted or paved areas provided in the yard.
- (c) Area reserved for park and open spaces (as per the provisions of KTCP (Approval of plot) Rules 2017)
- (d) Areas proposed to be developed as green space (including in the areas reserved as park and open spaces)
- (e) Type of land landscape, plantation, trees proposed.
- (f) Index of drawing as specified in **Appendix-III**.

**I – Requirements of Circulation Plan and Traffic study & Impact**

Detailed calculations of traffic studies conducted in the locality and the impact of the development proposed, on the existing traffic scenario.

(as detailed in Chapter 6)

**J – Requirements of Structural Drawings**

Structural drawings show the structural support components and details of the proposed project, from the foundation to the rooftop. All structural systems for a building that is designed must be signed and sealed by a licensed engineer.

Minimum information requirements for structural drawings include, but are not limited to, the following:

- Foundation plans, pile design (with layout), details, sections and all applicable schedules ex.(pile schedules)
  - Slab-on-grade and slab plans, section and details
  - Cast-in-place concrete floor plans
  - Floor framing plans, sections and details
  - Roof framing plans, sections and details
  - Structural steel framing plans, sections and details
  - Pre-engineered building design certificates and drawings
  - Load bearing walls, pads, columns, beams and joists
  - Pre-cast concrete plans, details and sections
  - Connection details for all components
  - Retaining walls
  - Building mounted antennas
  - Large, heavy or high signs
  - Pedestrian bridges, crane runways, and other special structures
- (as detailed in Chapter 6)

**K – Requirements of Green Building drawings**

(as detailed in Chapter 10)

**APPENDIX-III****INDEX FOR THE DIFFERENT TYPES OF DRAWINGS SUBMITTED****A – Index of Key Plan**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Existing and proposed width of roads abutting the plot
7. Marking of North direction
8. Date of approval

**B – Index of Site Plan;**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Existing and proposed width of roads abutting the plot
7. Extent of plot
  - (a) Total extent (as per document, as per site condition and considered for building licence)
  - (b) Extent to be surrendered for road widening (whether compensation paid – monetary or in the form of DR)
  - (c) Extent to be surrendered for P & OS and CA, if applicable.
  - (d) Net area for development
  - (e) Net area considered for FAR calculation
8. Land use analysis
  - (a) Land uses of plot as per Master Plan
  - (b) Permitted land uses as per Zonal regulations
  - (c) Existing land use of areas in the plot (% of area for roads, Park & Open Space and Civic Amenities, if applicable and % of area for development).
9. Summary of area statement of buildings with floor wise area details and FAR (permitted and proposed including DR / TDR).
10. Ground coverage (permitted and proposed)
11. Setbacks (required and provided)
12. Parking space (required and provided)
13. Public Toilet for Commercial Buildings (required and provided)
14. % of floor areas provided for community facilities, in case of Group housing.
15. Details of Means of Access, if applicable.
16. Marking of North direction
17. Date of approval

**C – Index of Floor Plan for parking area**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Land use analysis
  - (a) Land uses of plot as per Master Plan
  - (b) Permitted land uses as per Zonal regulations
  - (c) Proposed land use for different specific uses in the floor (% of floor area for different specific uses in the floor, including the proportionate percentage of common areas)

6. Summary of area statement, including floor area of buildings with floor wise area details required for calculating parking space requirement.
7. Parking space (required and provided)
8. Date of approval

#### **D – Index of Floor Plans of other uses**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of area statement of floor with details of total construction areas, areas considered for FAR & exempted from FAR, toilet areas, specific use areas & common areas, areas considered for parking calculations and details of FAR (permitted and proposed including DR / TDR).
7. Schedule of openings
8. Carpet area and plinth area of individual dwelling units and commercial premises in the floor.
9. no. of staircases and lifts (width of each staircase and capacity of each lift)
10. Public Toilet for Commercial Buildings (required and provided)
11. % of floor areas provided for community facilities, in case of Group housing.
12. No. of seats in case of Assembly buildings and no. of beds in case of hospitals and nursing homes.
18. Date of approval

#### **E – Index of Sections of Building**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Date of approval

#### **F – Index of Elevation of buildings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Date of approval

#### **G – Index of Drawings for all services provided**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the particular service provided (minimum requirements and provisions made)
7. Date of approval

#### **H Index of Landscape plan**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the land scape details provided (type of landscape and tree plantation made)
7. Date of approval

### **I – Index of Circulation Plan and Traffic study & Impact**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the road network provided in the development plan
7. Summary of traffic study conducted and impact (critical conditions and provisions made)
8. Date of approval

### **J – Index of Structural Drawings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the structural design and drawings (minimum requirements and provisions made)
7. Date of approval

### **K – Index of Green Building drawings**

The details to be contained are as follows

1. Name and address of the Applicant and space for signature
2. Name and address of Professional on record for drawing and space for signature
3. Name and address of the Authority and space for signature of CEO
4. Title of drawing
5. Survey nos., village name, Taluk name and district name where the plot is situated.
6. Summary of the Green building requirements (minimum requirements and provisions made)
7. Date of approval

### **APPENDIX-IV**

### **DETAILS OF PLANS AND OTHER PARTICULARS TO BE SUBMITTED FOR NOCS FROM OTHER DEPARTMENTS FOR DIFFERENT TYPES OF BUILDINGS.**

(as prescribed by the respective departments)

### **APPENDIX-V**

### **PROCEDURE FOR EMPANELMENT OF PROFESSIONALS BY THE AUTHORITY AND SELECTION OF EMPANELLED PROFESSIONALS**

The following procedure shall be adopted for empanelling the professionals by the respective ULBs and to select the empanelled professional for site inspection to verify the various components of buildings executed at site and also to certify building licence as notified by the government;

1. The eligibility of empanelled professionals to verify different types of buildings, based on the qualification, experience and competence shall be fixed as notified by the government.
2. Every ULB shall call Expression of Interest from eligible professionals for empanelment.
3. The ULB shall register the professionals for empanelment as specified in **Appendix-I**.

4. The ULB shall select the empanelled professionals for inspecting the site and submitting site inspection report as specified in these byelaws based on the predetermined logic notified by the Government.

5. The empanelled professional selected by the ULB for inspection of any building site, shall confirm his acceptance to undertake inspection work and submit site inspection report (within the timelines specified in **Appendix-VIII**), on the same day of receiving intimation from the ULB, failing which the ULB shall select another empanelled professional as per the predetermined logic notified by the Government.

#### **APPENDIX-VI**

#### **DETAILS OF DOCUMENTS TO BE SUBMITTED FOR BUILDING LICENCE**

The following documents shall be submitted along with the application, namely:-

- (a) RTC as per date of application;
- (b) Extract of Mutation Register;
- (c) Copy of the Title document such as Sale Deed, etc.;
- (d) Copy of the registered document of GPA / authorisation letter, if applicable;
- (e) Joint development Agreement or MOU and affidavit of all the owners of plots amalgamated for approval of plot;
- (f) Latest Encumbrance Certificate;
- (g) Survey sketch issued by Revenue Department for conversion purpose;
- (h) Conversion Order;
- (i) LAQ NOC;
- (j) All applicable NOCs from other departments;
- (k) Photographs of the site (minimum 4 nos., each from north, south, east and west) showing the natural and built developments within the site and also the abutting roads;
- (l) Copy of the plot approval obtained
- (m) Photo and other identity proof of the applicant;
- (n) Specifications of the buildings and
- (o) Any other documents notified by the Government;

#### **APPENDIX-VII**

#### **VARIOUS FEES FOR SANCTION OF BUILDING LICENCE AND OTHER FEES PAYABLE AS PER THESE BYE-LAWS**

The following fees shall be paid for sanction of building licence at the rates specified by the ULB or notified by the government.

1. Scrutiny fee
2. Licence fee
3. Infrastructure cess
4. Solid waste management cess
5. Greenery cess
6. Inspection fee
7. Construction and demolition waste disposal cess
8. Labour cess
9. Refundable Security Deposit
10. Fees for respective NOC

### **APPENDIX-VIII**

**TIMELINES FOR DIFFERENT ACTIVITIES FOR ISSUING BUILDING LICENCE, NOCS AND CERTIFICATION OF WORKS EXECUTED AT SITE AS PER THE CONDITIONS OF NOC, BY DIFFERENT DEPARTMENTS, FOR DIFFERENT TYPES OF BUILDING.**

**Timeline for issuing NOCs**

S.I No.	Type of approval	Approving Authority	Stage of project	Normal Duration (Days)	Reduced Duration (Days)	Activity Sequence
A	Intimation of Disapproval (IoD)	Development Authority/ Municipality	Pre construction	30	5	Start Activity
B	Site & Building Layout approval	Development Authority/ Municipality	Pre construction	30-60	5	Following A
C	NOC (if near sea/coastal areas)	Coastal Zone Management Authority	Pre construction	30-60	10	Following B
D	Road access	NHAI/PWD	Pre construction	30	10	Following B
E	Ancient Monument approval	Archaeological Survey of India (ASI)	Pre construction	30	10	Following B
F	Environment Clearance	Ministry of Environment	Pre construction	180	Only for large project	Following B
G	Borewell Registration Certificate	Central Ground Water Authority	Pre construction	15	5	Following B
H	Fire Fighting Scheme Approval	Fire Department	Pre construction	30	15	Following B
I	AAI Height NoC	Civil Aviation Department	Pre construction	30-60	10	Following B
J	Defence Clearance	Ministry of Defence	Pre construction	180	10	Following B
K	Building Permit Issue (All NOCs)	Development Authority/ Municipality	Pre construction		1	Max of After C-J
<b>Sub total</b>					<b>26 (Max)</b>	
L	Electric Substation NoC (substation /transformers in the building)	Electricity Distribution Authority	During construction	15	5	After K
M	Damp Proof Certificate (On Site)	Development Authority	During construction	7	3	After K
N	Pollution Clearance	State Pollution control Board	During construction	30-60	5	After L
Ø	<b>Construction Complete</b>	<b>Construction Time depends on the project Scale and Size</b>				
O	Building completion Certificate	Development Authority/ Municipality	Post construction	30-60	5	After Ø
P	Service Plan Clearance and Service Connections	Service Departments/ Parastatals	Post construction	30	10	After O
Q	Occupancy Certificate	Development Authority/ Municipality	Post construction	15	2	After P
<b>Sub total</b>					<b>17 (Max)</b>	

**Explanatory Notes:**

1. The above Table and Chart indicates that the processes after the applicant applies for building approval with clear land title and possession of land. Hence, clearances related to CLU and Land Title has not been considered.
2. The table illustrates the duration of clearances obtained in Normal course and suggests the reduced duration of 26 days (PreConstruction) if the Approving Authority adopts online sanctions.
3. Clearances indicated at S Nos. C-J are concurrent with applications at the pre-construction stages, wherein their process of approval can be taken up simultaneously.
4. Clearances indicated at S Nos. L-N are concurrent with applications during-construction stage, wherein their process of approval can be taken up simultaneously.
5. S No. P has to be linked with S No. O, once applicant receives the Completion Certificate, service plan clearances and connections would be deemed to be sanctioned.

**Timeline for issuing building licence**

Sl. No	Description of Standard Activities	Description of Additional Activities	Timelines for different types of approvals for different types of buildings (based on height)															
			Act. (A) /Cum. (C)**	B1			B2			B3			B4			B5		
				a*	b*	c*												
<b>Activities for all types of Approval of Plot</b>																		
1	The CEO of the Authority to verify the documents submitted along with the application.		A	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
			C	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
2		Issuing endorsement in case of discrepancy	A	1	1	1	1	1	1	2	2	2	3	3	3	3	3	
3		Applicant to rectify the defects and resubmit the documents and acceptance of the same by the designated officer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Evaluation of the Technical drawings and details submitted and acceptance of the same by TPO or the empanelled professionals or the designated officers, as the case may be, if the documents submitted are accepted by the CEO and also verification of compliance of conditions incorporated for obtaining NOCs from different departments.		A	2	2	2	3	3	3	4	4	4	6	6	6	5	5	
			C	3	3	3	4	4	4	6	6	6	9	9	9	8	8	
5	Submission of evaluation report to the CEO, with or without changes		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	3	3	3	4	4	4	6	6	6	9	9	9	8	8	
6	CEO to approve the technical drawings and details submitted, with the changes recommended by the TPO or the empanelled professional or		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	4	4	4	5	5	5	7	7	7	10	10	10	9	9	

	the designated officer, as the case may be.																	
7		Issuing endorsement by TPO, in case of discrepancy in the Technical details submitted	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8		Applicant to rectify the defects and resubmit the technical drawings and details and acceptance of the same by the TPO or the empanelled professional or the designated officer, as the case may be.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	CEO to forward application, technical drawings and details submitted for NOCs, to the concerned departments, along with required fees paid by the applicant, if the technical drawings and details submitted by the applicant is approved by the CEO.		A	-	-	-	-	-	-	-	-	1	1	1	1	1	1	
			C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	CEO to forward the required details to the selected empanelled professional for site inspection to verify the site plan submitted.		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	5	5	5	6	6	6	8	8	8	11	11	11	10	10	10
11	Site inspection & submission of Inspection report by empanelled professional, to the CEO, with or without noting of discrepancy.		A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
			C	7	7	7	8	8	8	10	10	10	13	13	13	12	12	12
12	Approval of Site Inspection Report by the CEO, by		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			C	8	8	8	9	9	9	11	11	11	14	14	14	13	13	13

	accepting or rejecting the noting of discrepancy, if any.																
13		Issuing endorsement in case of discrepancy in the Site Inspection Report accepted by the CEO	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14		Applicant to rectify the defects and resubmit the respective drawing and detail as per the endorsement and acceptance of the same by the TPO		-	-	-	-	-	-	-	-	-	-	-	-	-	-
15		Receipt of all required NOCs from the respective departments.		-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	On receipt of all the required NOCs and approval of site inspection report by the CEO, the CEO to sanction the building licence and forward the challan for payment of fees, to the applicant.		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			C	9	9	9	10	10	10	12	12	12	15	15	15	14	14
	Payment of Fees by land owner / promoter for the NOCs and building licence.			-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CEO to issue building licence and the NOCs received from the concerned departments.		A	1	1	1	1	1	1	1	1	1	2	2	2	2	2
			C	<b>10</b>	<b>10</b>	<b>10</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>16</b>

**\*a - new construction**

**b- addition / Alteration**

**c-revised licence**

**\*\* - A - Timeline for each activity**

**C- Cumulative timeline upto that activity**

**APPENDIX-IX****PROCEDURE FOR SITE INSPECTION BY EMPANELLED PROFESSIONALS AND SUBMISSION OF SITE INSPECTION REPORT.**

The following procedure shall be followed for Site inspection and submission of Site Inspection report.

1. CEO shall intimate the selected Empanelled Professional or the designated officer, as the case may be, to inspect the site and submit Site inspection report within the timelines prescribed in **Appendix-VIII**.
2. CEO shall forward copies of the relevant documents and drawings submitted by the Applicant, to the selected empanelled professional or designated officer, which are required to be verified at site.
3. The empanelled professional, shall intimate the Applicant and the Profession on record for drawings, tentative time and date (three options) for Site Inspection on the same day of receiving intimation from CEO and to be present at the site on the agreed date & time either in person or through his authorised representative along with the person who has conducted survey using total intelligent station.
4. The applicant and the professional on record, in mutual consent, shall select any one of the three options provided by the empanelled professional or designated officer, for site inspection and intimate the same to the Empanelled professional or designated officer. If the Applicant / professional on record does not intimate the Empaneled Professional or designated officer regarding the preferred date & time for site inspection, the empanelled professional or designated officer shall fix the site inspection at his convenient date and time (from the three options given by him) and intimate the applicant and the professional on record regarding the same.
5. The Empanelled professional or the designated officer shall inspect the site at the time and date jointly agreed by the Applicant and the professional on record for drawings or on the date fixed by the empanelled professional or the designated officer.
6. During the site inspection on the date and time fixed as mentioned in (5) above, in the presence of the applicant and professional on record or in their absence, as the case may be, the empanelled professional on record or the designated officer shall verify the site conditions for the following details submitted by the applicant.
  - (a) Photographs of the plot (by taking photographs from all four sides of the plot).
  - (b) Existing width of all roads abutting the plot
  - (c) Location of all natural features in the plot
  - (d) Location of city level sewer lines and HT lines passing through the plot.
  - (e) Building footprint and other constructions proposed on the site.
7. The empanelled professional shall mention any missing items (from the list mentioned in (6) above) or deviations (between the details submitted by the applicant and site conditions), in the site inspection report.
8. If the Applicant and professional on record are present during the site inspection, the empanelled professional shall note the acceptance or objections, as the case may be, of the observations made by the empanelled professional in the site inspection report, regarding the missing items or deviations.

The empanelled professionals shall send the site inspection report with noting of deviations, if any, in the prescribed format, to the Authority, within the timelines specified in **Appendix-VIII**.

**APPENDIX-X****VALIDITY PERIOD OF SANCTION AFTER COMMENCEMENT OF WORK AT SITE AND EXTENSION OF VALIDITY.**

1. Validity period for commencement of work – 2 years
2. Initial validity period for completion of work
  - a) B1, B2 and B3 buildings – 2 years from the date of commencement of work
  - b) B4 and B5 buildings – 3 years from the date of commencement of work
3. Extension of validity

Extension of validity may be permitted by paying yearly revalidation fee as prescribed

**APPENDIX-XI****DETAILS TO BE MAINTAINED IN THE SITE/ SITE OFFICE OF THE CONSTRUCTION SITE.**

The person to whom a permit is issued shall, during construction keep, posted in a conspicuous place on the property in respect of which the permit was issued

- a) A copy of the building permit;
- b) A copy of the approved drawings and specifications of the property in respect of which the permit was issued.
- c) Where tests of any materials are made to ensure conformity with the requirements of the Bye-laws, records of test data shall be kept available for inspection during the construction of the building and for such a period thereafter as required by the Authority.

**APPENDIX-XII****STAGES OF CERTIFICATION OF VARIOUS COMPONENTS OF BUILDING EXECUTED AT SITE BY EMPANELLED PROFESSIONALS**

1. Commencement of work
2. Completion of foundation
3. Completion of each RCC slab (floors and terrace)
4. Exterior masonry completion in each floor
5. Completion of building exterior works and common areas
6. Completion of yard works and services
7. Completion of all works

**APPENDIX-XIII****A. REQUIREMENT OF NUMBER AND TYPE OF LIFTS****Number and Type of Lifts Required for Different Occupancies and Space for Electrical Installations**

1. The number and type of lifts required depending on the capacity of lift, desired speed nature of operation are as given in table below:

**Table: Number and types of lifts for non-residential Multistoried Building**

Sl. No.	No.of floor	Capacity of lifts in person	Speed m/s	No. of persons that can be carried by a lift							
				In 6 min		In 30 min		In 50 min		In 60 min	
1	2	3	4	5	6	7	8	9	10	11	12
1	7	6	0.6-0.75	17	-	102	-	170	-	204	-
2	7	8	0.6-0.75	22	-	132	-	220	-	-	-
3	7	10	0.6-0.75	26	-	156	-	260	-	312	-
4	7	10	1.0	30	-	180	-	300	-	360	-
5	7	13	1.0	37	-	122	-	370	-	444	-
6	11	6	0.6-0.75	11	-	70	-	115	-	140	-
7	11	8	0.6-0.75	15	-	90	-	150	-	180	-
8	11	10	0.6-0.75	18	-	108	-	180	-	216	-
9	11	13	0.6-0.75	22	-	132	-	220	-	264	-
10	11	10	1.0	21	-	126	-	210	-	252	-
11	11	10	1.5	24	-	144	-	240	-	288	-
12	11	13	1.5	28	-	156	-	260	-	312	-
13	11	13	1.5	32	-	180	-	300	-	-	-
14	16	10	1.0	17	-	100	126	170	210	-	252
15	16	13	1.5	20	24	120	145	200	240	248	290
16	16	13	1.5	23	30	138	180	138	300	-	360
17	16	16	1.5	25	33	150	198	150	330	300	356
18	21	10	1.5	18	32	108	132	108	220	214	264
19	21	13	1.5	21	26	126	156	126	250	250	312
20	21	14	1.5	23	28	138	168	138	280	-	-

**Note-1:**

- a) For all non-residential buildings, the traffic cleared in 50 minutes is considered adequate and is approved by Authority. As such for calculation the number of lifts required, the rate of the clearance of traffic in column 9 and 10 and the population may be taken into consideration.

b) In addition to total number of lifts required as above, provision of one lift of the same capacity may be considered to serve as stand-by.

**Note-2:** The population may be worked out on the basis of useful carpet area which the person occupies (excluding area of Verandah, Lobbies, Halls, Passages, Lavatory blocks, etc.)

**Note-3:** The population on ground and first floor may not be taken into consideration since these floors are not generally served by lifts.

**Note-4:** 0.75 meter per sec. Equivalent to 150 ft. per Min.

1.00 meter per sec. Equivalent to 200 ft. per Min.

1.5 meter per sec. Equivalent to 300 ft. per Min.

**Note-5:** The height of buildings for lift installation i.e. the travel on the lift presumed in the above statements is as below:

7 floors 21.0 m.

11 floors 33.0 m.

16 floors 48.0 m.

21 floors 64.0 m.

**Table: Number and types of lifts for Residential Building**

Sl. No.	No. of floors	No	Passenger unit capacity Persons	Speed in m/s	Landing Gate Type	Central System	Service Lift No.	Capacity Persons	Type of Gate	Central System
1	5 to 8	2	6	0.0 to 0.5	*	Automatic push button operation both from car and landing	-	-	-	-
2	9 to 11	2	8	0.6 to 1	*	--Do--	1	8	-	Push button can handle switch control
3	11 to 13	2	8	0.6 to 0.74	*	-- Do-- and without collection system -- do --	1	8	-	-- do --
		1	6		Power operated doors					
4	13 to 19	2	8	1	-	--Do--	1	8	-	--Do--
		2	8	1	Power operated doors					

\* For buildings more than 15 m in height collapsible gates shall not be permitted.  
(see bye-law No. 7.9.1(f))

**Table: Dimensions and required information for Lift Installation in Building**

Carrying capacity of lift (persons) number	Load (kg)	Lift speed	Dimension of lift well front depth (in cm.)	(cm)	Leading Pit Entrance (Cm)	Dimension of Machine Room	Clearance from top floor landing to machine room flooring cm	Imposed load in tones on top of lift well due to installation. It may be noted that figures do not include weight of the machine from floors and well, etc.
1	2	3	4	5	6	7	8	12
4	272	Up to & including 1 m/s	175	115	70	140	230 275 245 450	6.5
6	408	--do--	195	135	80	140	230 335 275 450	7.0
8	544	Up to & including 1 m/s	200	170	80	150	245 395 275 450	8.5
10	680	Up to & including 1 m/s	225	170	90	150	245 395 305 470	10.5

13	884	--do--	235	188	90	150	245	425	335	470	13.0
16	1088	--do--	255	205	105	150	245	520	335	480	15.0
20	1360	--do--	255	220	105	150	245	520	335	480	15.0

**Note:**

- i) All lift well dimensions are minimum clear finished plumb requirements.
- ii) Where more than one lift is located in the lift well, extra width of 10 cm. Separator beam should be provided.
- iii) 1 m/s = 200 ft./min.
- iv) The height of landing entrance should be 210 cm. (about 7 ft.) for all lifts.

**B. REQUIREMENT FOR ELECTRICAL SUB STATION****Spaces for Electrical Installations**

The spaces required for different electrical installations are given at 3.1 to 3.3

**Electric Sub-station** – The norms given in 3.1.1 and 3.1.2 shall be adopted for provision of space for sub-station.

**Area Requirements for Sub-Station for buildings**

Sl.No.	Total covered Area (Sq.m)	Transformer Capacity (KVA)	Sub-Station Size Required (Sq.m)
1	2500	1 X 400	70
2	4500	1 X 630	70
3	8000	2 X 630	100
4	10,000	2 X 630	130
5	15,000	4 X 630	160
6	20,000	5 X 630	175
7	25,000	6 X 630	200
8	30,000	7 X 630	220

**Note:**

1. For additional 1000 Sq.m. covered area, a load of 90 KVA will come up with 150 KVA TR. Capacity at 60 % loading.
2. For additional of one transformer as per covered area, a space of additional 16 Sq.m. is to be provided.
3. In case of any deviation in space size due to unavoidable circumstance, the same may be considered with the approval of Electricity Board.
4. The floor of the sub-station shall have cable trenches of 0.6 m. depth, the layout for which will be given at the time of actual construction. For this purpose, a dummy floor of 0.6 m. depth shall be provided to facilitate cutting/digging of floor for installation of equipment's and making subsequent changes in trenches. This floor shall be capable to withstand minimum load of 10 ton of each transformer mounted on flour wheels.

The break-up spaces required for different installations in a sub-station are given as below:

1. Supply company's Switchgear room and or space of meters.
2. **Transformer Rooms:** The number and size of transformer rooms shall be ascertained from the total power requirements of the company. To determine the size of transformer and clearance around a transformer, reference may be made to good practice (I.S.1887-1967 code of practice for installation and maintenance of Transformer). A 500 KVA transformer may be provided with a minimum space of 4 m. X 4 m.

If transformer is to be installed outdoor space shall be provided on similar considerations and adequate provision for safety enclosure is to be made. For transformer having large oil content (more than 2000 lt.) soak pits are to be provided in accordance with rule 64 of Indian Electricity Rules, 1956.

3. **High Voltage Switch Rooms:** In case of sub-station having one transformer, the owner is required to provide only one high voltage switch. In the case of single point supply for two transformers, the number of switches required is 3 and for 'n' transformers the number of switches is n+1. The floor area required in case of a single switch will be roughly 4mX1m and for every additional switch the length should be increased by 1m.
4. **Low Voltage Switch Rooms:** The floor area requirement in respect of low voltage switchgear room cannot be determined by any formula.
5. **Room for Stand-by-Generator:** A room space not less than 6 m. X 9 m. may be provided for housing a standby Generator set of 50 KW.

**Location of electric sub-station in basement of multistoried buildings:**

- 1 The electric sub-station should be provided in the approved/sanctioned covered area of the buildings not below the first basement level and should be on the

periphery of the building with clear independent round the clock approach having proper ramp with slope.

The ramp should be designed in such a manner that in case of fire no smoke should enter the main buildings. The exit from basement electric sub-station shall have self-closing fire/smoke check doors of 2 hours. F.R. near entry to ramp. Additional exit shall be provided if traveled distance from the farthest corner of the ramp is more than 15m.

2. The electric sub-station should be totally segregated from rest of the basement having 4 hours. F.R. wall and should have adequate internal lighting and ventilation. A perfect independent ventilation system of 30 air charges per hour linked with detection as well as automatic medium velocity water spray system for individual transformer shall be located outside the building at ground floor, fire control room shall be manned round the clock and shall also have and audio system in the basement as well as in the control room. No service such as water, sewer, air-conditioning, gas pipes or telegraphs services should pass through electric substation of the cable trench.
3. The rising mains should be of metal bus bars. The floor of electric substation should be 2 ft above the rest of basement floor and designed suitably to carry 10 tons of transformer weight on wheels also having provision of proper cable trenches 0.6 X 0.6 m. depth. Dummy floor of 0.6 m. depth be provided to facilitate laying of cables inside the building connecting to equipment. Fire retarding cables should be provided and cable trenches be filed with said cables. R.C.C. pipes at suitably places as required will be provided for cable entries to the sub-station spaces with suitable water proofing arrangement. A provision of 12 ft. clear height below Beams should be made in the electric sub-station area along with adequate arrangement for fixing chain pulley block for a load of 15 tons. Provision of sumps shall be kept in the floor so that complete volume of transformer oil in the event of spillover could be accommodated. Sufficient arrangement to prevent spread of fire to oil pumps is made.
4. Transformers room and sub-station room shall be provided with steel shutters of 8' X 8' with suitable grills. Sufficient arrangement for pumping the water out, in case of flooding should be made to minimize loss to switchgear and transformer.
5. In view of experience of installation of exhaust chimneys in the multistoried buildings at undesirable locations, proper provision in the form of vertical exhaust leading to above terrace level should be made for the substation.
6. Electric sub-station space should be made available free of cost by promoters and should be free of seepage/leakage of water. There should be no combustible material kept in side or in the vicinity. Periodic inspection of electric sub-station shall be mandatory and violation of any bye-law will be dealt, sternly with penalty and immediate disconnection.

#### **Other Requirements for Sub-station**

1. The sub-station will preferably be located on the ground level failing which it can be in the basement floor in no case at higher level.
2. The entire space will be provided at one floor in continuation.
3. The minimum width of the sub-station space shall not be less than 6 m.
4. The areas given above in respect of the different categories of rooms hold good if they are provided with windows and independent access doors.
5. All the rooms should be provided with partition up to the Ceilings and shall have proper ventilation. Special care should be taken to ventilate the transformer rooms and where necessary, louvers at lower levels and exhaust fans at higher level shall be provided at suitable locations.
6. In order to prevent storm water entering the transformer and switch rooms through the soak pits, the floor level of the sub-station shall be at least 15 cm above the highest flood water level that may be anticipated in the locality.

#### **Cable Trenches Shafts Etc.**

1. Suitable number of vertical shafts, rising mains, distribution boxes, etc. shall also be provided as per the requirements at suitable location. Cable trenches with suitable handy covers for entry of the cables up to the substation onwards up to the street adjoining other building shall also be provided as per the requirements.

These vertical shafts, rising mains, distribution boxes, cable trenches, etc. shall be so constructed as to be accessible only to authorized personnel. The rising mains and other installations in the vertical shafts, tap off boxes distribution boxes etc. required at each floor shall be provided, installed and maintained by the owner at their own cost. Adequate enclosed space shall also be provided at

each floor for installation of equipment's for distribution on respective floors such as distribution boxes, cut-out, and meter boxes and main switches.

**2 Location of Switch Room:** In large installations other than where a substation is provided, a separate switch room shall be provided. This shall be located as closely possible to the electrical load center and suitable ducts shall be laid with minimum number of bends from the point of entry of the supply to the position of the main switchgear. The switch room shall also be placed in such a position that rising ducts may readily be provided there from to the upper floors of the building in one straight vertical run. In larger building, more than one rising duct and horizontal ducts may also be required for running cables from the switch room to the foot of each rising main. Such cable ducts shall be reserved for the electrical services only, which may, however, include medium and low voltage installations, such as call bell systems. Telephone installation should be suitably segregated.

**3 Location and Requirement of Distribution Panels:** The electrical gear distribution panels and other apparatus, which are required on such floor, may conveniently be mounted adjacent to the rising mains, and adequate space should be provided at each floor for this purpose.

**4 Location and Requirement of PBX/PABX Room:** Information regarding provision and location of PBX/PABX room, telephone outlets and riser shall be ascertained form the relevant Authority.

*Adequate space should be provided for installation of Sub-Distribution Board.*

### ***GENERAL***

The maintenance of the built up space for electric sub-station, distribution equipment, vertical shafts and enclosure at each floor shall be done by the owner. The standby arrangement for electricity supply up to and including the substation equipment and distribution pillars at the sub-station shall be provided compulsorily.

## **APPENDIX-XIV**

### **PROVISION FOR DIFFERENTLY ABLED**

#### **1. Definitions**

**Ambulant Disabled People:** Disabled who are able to walk but who may depend on prostheses (Artificial Limbs) or those (Calipers), Sticks, crutches or walking aids.

**Non-Ambulant Disabled People:** Disabled people with impairments that confine them to wheelchair.

**Wheel Chair:** Chair used by disabled people for mobility.

- i) Size of small wheel chair: 750 x 1050 mm
- ii) Size of large wheel chair: 800 x 1500 mm

#### **2. Scope**

These bye-laws are applicable to public buildings and exclude domestic buildings.

Building which shall provide access to ambulant disable and Non-Ambulant disabled are listed below. Distinction is made for buildings to be designed for the use of large wheel chairs and small wheel chair.

3. Building to be designed for Ambulant Disabled People Higher Secondary School, Conference Hall, Dance Halls, Youth Centers, Youth Clubs, Sport Centers, Sport Pavilions, Boat Club Houses, Ice Rinks, Bowling Centers, Swimming Pools, Police Stations, Law Courts, Courts Houses, Sport Stadiums, Theatres, Concert Halls, Cinemas, Auditoria's, Small Offices (the maximum plinth area 1400 sq.mt) Snack Bars, Cafes and banqueting rooms (for capacity above 50 dinners).

**Note:**

- i) In sport stadiums provisions shall be made for non-ambulant spectators (small wheel chair)
- ii) @ 1:1000 up to 10,000 spectators and @ 1:2000 for spectators above 10,000.
- iii) In Theatres, Concert Halls, Cinemas and Auditoria provisions shall be made for non-ambulant spectators (Small Wheel Chairs) @ 1/250 up to 1000 spectators and 1/500 for spectators above 1000.

4. Building to be designed for Non-Ambulant Disabled People:

Schools for physically handicapped, cremation, buildings as mentioned in 3, Botanical Gardens, Religious Buildings, Old People Clubs, Village Halls, Day Centers, Junior Training Centers, Post Offices, Banks, Dispensaries, Railway Stations, Shops, Super Markets, and Departmental Stores.

**Notes:** Large wheel chair criteria shall be applicable on ground floors of the following building, post offices, banks, dispensaries, railway station, shops, supermarkets, and departmental stores.

5. Building to be designed for Non-Ambulant People (using small wheel chairs) Public lavatories in Tourist Sports, Clubs Motels, Professional and Scientific Institution, Museum,

Art Galleries, Public Libraries, Laboratories, Universities, Collage for further Education, Teachers Training Colleges, Technical College, Exhibition Halls Dentist Surgeries, Administrative Department of the Hospitals, Service Stations, Car Parking, Buildings Airports Terminals, Bus Terminals, Factories Employing Handicapped for Sedentary Works, Large Offices, (with plinth area abode 1400 sq.mt.), Tax Offices, Passport Offices, Pension Offices, and Labour Offices, Cafes, Banqueting Rooms and Snack Bars (For capacity above 100 dinners).

#### 6. Buildings Requirements:

All Building requirements for building projects proposed under this category shall be conforming to Annex D, Part 3 of NBC 2005.

### **APPENDIX-XV**

#### **ACCREDITATION OF ENVIRONMENTAL AUDITORS (QUALIFIED BUILDING AUDITORS)**

The Ministry of Environment, Forest and Climate Change (MoEFCC), through qualified agencies shall accredit the Qualified Building Environment Auditors (QBEAs). The Qualified Building Environment Auditors could be a firm /organization or an individual expert, who fulfils the requirements. The Ministry will implement this process of accreditation through Quality Council of India (QCI), National Productivity Council or any other organization identified by the Government. The organizations like Indian Green Building Council, Bureau of Energy Efficiency etc. can also be associated in the process of accreditation, training, and renewal. The environmental consultants accredited by the QCI for building sector will be qualified as QBEAs. The QBEAs will meet the following criteria. The accrediting agency can improvise on these criteria.

##### **Qualifications of the Auditor:**

- a. Education: Architect (Degree or Diploma), Town Planners (Degree), Civil Engineer / Mechanical Engineer (Degree or Diploma), PG in Environmental Science or any other qualification as per the scheme of the accreditation.

##### **Training:**

- b. Mandatory training to be given by the accreditation body or their approved training providers. This will be as per the scheme of the accreditation.

##### **Experience:**

- c. At least 3 years of work experience in the related field or building sector Environment Impact Assessment consultants accredited by QCI or any other experience criteria as per the scheme of the accreditation.

##### **Infrastructure and equipment:**

- d. As per the scheme of the accreditation

##### **Renewal:**

- e. The accreditation will be valid for 5 years and will be renewed as per the process developed under the accreditation scheme.

Accountability/Complaint redressal mechanism: Any complaints regarding the quality of the work of QBEAs shall be made to the accreditation body. The accreditation body shall evaluate the complaint and take appropriate action including black listing or cancellation of the accreditation with wide public notice. This will be in addition to the action at the level of local authority for penalty and blacklisting. The Ministry can also take such action in case of specific complaint or feedback.

### **APPENDIX-XVI**

#### **ENVIRONMENTAL CELL AT THE LEVEL OF LOCAL AUTHORITY**

An Environmental Cell shall be setup at the local authority level to support compliance and monitoring of environmental conditions in buildings. The Cell shall also provide assistance in environmental planning and capacity building within their jurisdiction. The responsibility of this cell would be monitoring the implementation of this notification and providing an oversight to the Third-Party Auditing process. The cell will operate under the local authority.

##### **Constitution of the cell:**

The cell will comprise of at least 3 dedicated experts in following fields:

- a. Waste management (solid and liquid)
- b. Water conservation and management
- c. Resource efficiency including Building materials
- a. Energy Efficiency and renewable energy

- e. Environmental planning including air quality management.
- f. Transport planning and management.

The Cell shall induct at least two outside experts as per the requirements and background of dedicated experts. Existing environmental cells at the level of local authority can be co-opted and trained for this Cell.

#### **Financial Support:**

An additional fee may be charged along with processing fee for building License for integrating environmental conditions and it's monitoring. The local authority can fix and revise this additional fee from time to time. The amount of this fee shall be deposited in a separate bank account, and used for meeting the requirement of salary / emoluments of experts and running the system of online application, verifications and the Environmental Cell.

#### **Functions of the Cell:**

1. The cell shall be responsible for assessing and appraising the environmental concerns of the area under their jurisdiction where building activities are proposed. The Cell can evolve and propose additional environmental conditions as per requirements. These conditions may be area specific and shall be notified in advance from time to time. These additional conditions shall be approved following a due consultation process. These environmental conditions will be integrated in building Licenses by the sanctioning authority.
2. Develop and maintain an online system for application and payment of fees. The Cell shall maintain an online database of all applications received, projects approved, the compliance audit report, random inspections made. The Cell shall maintain a portal for public disclosure of project details including self-certification and compliance audit reports filed by the Qualified Building Environment Auditors for public scrutiny of compliance of environmental conditions by the project.
3. Monitoring the work of Environmental Audit process carried by the Qualified Building Auditors.
4. The Cell shall review the applications; finalize the additional environmental conditions if required within 30 days of the submission of the application to the local authority.
5. The Cell shall adopt risk based random selection of projects for verifying on site for certification of QBA, compliance of environmental conditions and five yearly audit report.
6. The Cell shall recommend to the local authority for financial penalty for non-compliance of environmental conditions by the project proponent.
7. The Cell shall recommend to the accrediting body and the local authority against any Qualified Building Environment Auditor, if any lapse is found in their work.

#### **APPENDIX-XVII**

#### **CATEGORIES OF MATERIALS OF STORAGE OF WAREHOUSE AS PER COMBUSTION RISK.**

##### **A. Non-combustible materials:**

Articles (which are Non- Combustible, Non -Flammable, Non -Corrosive, Non -toxic, Non-poisonous, Non-Explosive) such as Cement, brick, mortar, hardware items, metals in solid bar/metal goods (excluding those having melting point below 1000 ° C)

##### **B. Combustible Materials in following 4 sub categories**

<b>Category</b>	<b>Material Specifications</b>	<b>Stacking Height</b>	
		<b>Medium (in m)</b>	<b>High (in m)</b>
<b>Category I</b>	Articles such as Carpets, Non synthetic/synthetic yarn and fabrics. Mechanical and electrical goods (dominantly metal parts), Glassware and crockery, fibreboards, groceries, metal goods, Papers other than those listed under categories Moderate and High, Powdered and canned foods, Plastic/glass bottles containing non-flammable liquids, etc.	<b>4</b>	<b>6.5</b>
<b>Category II</b>	Articles such as Batteries, Baled cotton/synthetic fibers, Books, Baled cork, Baled waste paper, Cartons containing alcohols ( in cans/bottles), Cartons of canned lacquers which dry by solvent evaporation, Chipboard, Cardboard rolls (horizontally Stored), Cereals/Grains/Foodstuff/ Flour/Sugar in sacks, Cellulose/Cellulose pulp, Electrical goods other than those stated in Category low, Flammable liquids in non-combustible containers, Leather goods, Palletized liquor	<b>3</b>	<b>5.5</b>

	stocks, Plastics (non-foamed, other than cellulose nitrate), Rolled pulp and paper and asphalted paper (Horizontal storage), Veneer sheets, Wooden patterns, Metal/wooden furniture with plastic seats, etc.		
<b>Category III</b>	Articles such as Bitumen/Wax coated paper, Candles, Carbon black, Card board rolls (vertically stored), Charcoal, Coal > cellulose nitrate, Foamed plastic and foam rubber products, Flammable liquids in combustible containers, Linoleum products, Matches, Plastics other than those stated in Category Moderate, Rolled pulp and paper and asphalted paper (vertical storage), Rubber goods including tyres and tubes, Sawn timber, Ventilated wood stacks, Waxed and asphalt coated papers and containers in cartons, Wood wool, wooden pallets and flats (idle), All materials having wrappings or pre-formed containers of foamed plastics, etc.	<b>2</b>	<b>4.5</b>
<b>Category IV</b>	Off cuts and random pieces of foamed plastic or rubber rolls of sheets of foamed plastic or foamed rubber, Foam mattress, Expanded polystyrene packaging, Foam upholstery, etc.	<b>1.25</b>	<b>3.5</b>

**Explanations:**

# The deflector of the sprinkler fitted in the ceiling shall be at more than 1.5 m from the goods stored below. However, in case of jute storage, no jute stock shall reach within 2 m of the deflectors of the sprinkler heads.	Goods stored not higher than what is stated above for the appropriate category or not higher than the eaves height of the roofs or within 1 m of a flat ceiling whichever is the lowest shall be regarded as moderate hazard storage. If the above conditions are not met, the risk shall be regarded as high hazard storage
# In case of storage in racks or shelves, if the height of storage is more than what is specified, intermediate sprinklers shall be provided for each shelf/rack in addition to the ceiling sprinklers and overall design density and AMAO shall be maintained as per Table 5 of IS: 15105.	
# The aisle width between the storage stacks shall not be less than 2.5 m and the maximum area of each storage stack shall not be more than 15.0..m <sup>2</sup> . If these parameters are exceeded, the design density applicable shall be loaded by 2.5 L/min/m <sup>2</sup> .	
# In case of mixed storage (both moderate and high hazard storage) in buildings, the parameters will be governed by the most hazardous occupancy	

**Notes:**

1. Any new use which increase the number of occupants to a figure comparable with other classes of occupancy shall change the classification of the building to that of the new use (for example, Warehouse used \ for office purposes).
2. Ware house buildings shall not include any article which is highly combustible or explosive materials or products which are liable to bum with extreme rapidity and or which may produce poisonous fumes or explosions for storage, handling and which involve highly corrosive, toxic or noxious alkalis, acids or other liquids or chemicals producing flame, fumes and explosive, poisonous, irritant or corrosive gases; and for the storage, handling of any material producing explosive mixtures of dust which result in the division of matter in to fine particles subject to spontaneous ignition as such buildings fall in Hazardous Building Category.

**FORMS****FORM-I****DETAILS TO BE CONTAINED AND TO BE ATTACHED TO THE APPLICATION FORM FOR BUILDING LICENCE.**

1. Name and address of the Applicant;
2. Identification proof of the Applicant;
3. Whether the Applicant is the owner of the plot or GPA holder or Promoter, representing the Owner;
4. Survey No., Village, Taluk and District of the plot and other description of plot;
5. Type of Building licence required (for new construction, addition / alteration, revises licence);
6. Documents enclosed with the Application;
7. Drawings or Details enclosed with the Application;
8. Details of Professionals on Record to prepare the drawings;
9. Details of Professionals on Record to supervise the works (compulsory in case B3, B4 and B5 types of buildings)
10. Affidavit and indemnity for basement floor construction
11. Specifications of the building enclosed with the application (in the format notified by the government)
12. Affidavit of applicant and professionals on record for drawings and supervision enclosed with the application (in the format notified by the government)

**FORM-II****DETAILS TO BE CONTAINED AND TO BE ATTACHED TO THE APPLICATION FOR NOCS FROM DIFFERENT DEPARTMENTS, IN ADDITION TO THE DETAILS REQUIRED FOR BUILDING LICENCE (as specified by the concerned department).**

- IIa. From Department of Fire and Emergency Services**
- IIb. From MOEF and KSPCB**
- IIc. From Airport Authority of India**
- IId. From Coastal Regulation Zone Authority**
- IIe. From Karnataka State Water Supply & Drainage Board**
- IIf. From Indian Railways**
- IIg. From Metro rail corporation**
- IIh. From Heritage conservation committee**
- IIi. From National Monuments Authority**
- IIj. From Urban Arts Commission**

**FORM-III****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE DOCUMENTS SUBMITTED**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Document having discrepancy;
4. Details of discrepancy; and
5. Details of rectification proposed, if any

**FORM-IV****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE PLANS AND DETAILS SUBMITTED FOR SANCTION OF BUILDING LICENCE**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Drawings having discrepancy (specify for each drawing separately);
4. Details of discrepancy in drawings (specify for each drawing separately);
5. Details of discrepancy in the conditions for obtaining NOCs from other departments; and
6. Details of rectification proposed, if any;

**FORM-V****DETAILS TO BE CONTAINED IN THE INTIMATION LETTER OF THE AUTHORITY TO EMPANELLED PROFESSIONAL FOR SITE INSPECTION AND SUBMISSION OF SITE INSPECTION REPORT FOR APPROVAL OF SITE PLAN**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for preparing drawing;
4. Details of the building site in which building licence is applied for;
5. Copies of the relevant documents;
6. Details of the site plan and other technical drawings & details submitted;

**FORM-VI****DETAILS TO BE CONTAINED IN THE SITE INSPECTION REPORT**

1. Name and the address of the Applicant;
2. Name and the address of the professional on record for drawings;
3. Name and the address of the Empanelled professional or designated officer ;

4. Particulars of the Plot;
5. Date of inspection;
6. Noting of site inspection;
7. Acknowledgement of applicant and professional on record
8. Date of submission of report;

**FORM-VII**

**DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT REGARDING DISCREPANCY IN THE SITE INSPECTION REPORT**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for preparing drawing;
4. Name and address of the empanelled professional who has submitted the inspection report;
5. Drawings having discrepancy (specify for each drawing separately);
6. Details of discrepancy in drawings (specify for each drawing separately);
7. Details of rectification proposed, if any;

**FORM-VIII**

**DETAILS TO BE CONTAINED IN THE BUILDING LICENCE**

1. Name and address of ULB with logo
2. Type of building licence
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,)
10. NOCs received
11. Various fees paid
12. Licence validity period
13. Other Terms and conditions of licence
14. Seal and signature of CEO

**FORM-IX****DETAILS TO BE DISPLAYED OUTSIDE THE CONSTRUCTION SITE.**

1. Name and address of the Applicant;
2. Details of the building licence (extent of site, existing and proposed width of roads abutting the road and name of roads as per the records of the Authority, no. of building blocks and for each block – no. of floors, all-round setbacks, no. of basement floors, total floor area eligible and proposed – permissible, premium and TDR, no. of 4-wheeler and 2 wheeler parking required and provided, including visitors parking – within the building and outside the building, both covered and open)
3. Details of Professionals on Record to prepare the drawings;
4. Details of Professionals on Record to supervise the works;
5. Site plan
6. 3D view of the building (if proposed in any advertisement of the promoter)

**FORM-X****DETAILS TO BE CONTAINED IN THE SITE INSPECTION REPORT OF EMPANELLED PROFESSIONAL, CERTIFYING THE WORKS OR STATING THE DEFECTS / DEVIATIONS IN WORKS EXECUTED AT SITE.**

1. Name and address of the Applicant.
2. Name and address of the professional on record for supervision
3. Name and address of contractor executing work
4. Name and address of empanelled professional
5. Name and address of the Authority
6. Particulars of the Plot
7. Noting of site inspection (stating the defects / deviations in works executed, from the approved plans, specifying the related drawing)
8. Acknowledgement of applicant and professional on record
9. Date of inspection
10. Date of submission of report

**FORM-XI****DETAILS TO BE CONTAINED IN THE ENDORSEMENT ISSUED BY THE AUTHORITY TO THE APPLICANT TO RECTIFY THE DEFECTS IN WORKS EXECUTED.**

1. Name and address of the Applicant;
2. Details of the application for building licence;
3. Name and address of the Professional on record for supervision;
4. Name and address of the empanelled professional who has submitted the inspection report;

5. Works having defects / deviations from approved drawings (specify for each drawing separately);
6. Details of discrepancy in works executed (specify for each drawing separately);
7. Details of rectification proposed, if any;

**FORM-XII**

**DETAILS TO BE CONTAINED IN INSPECTION REPORT OF CEO REGARDING OBJECTIONS RAISED BY THE APPLICANT AGAINST THE INSPECTION REPORT OF EMPANELLED PROFESSIONAL OR DEPARTMENT ISSUING NOCs.**

1. Name and address of the Applicant.
2. Name and address of the professional on record for supervision
3. Name and address of contractor executing work
4. Name and address of empanelled professional
5. Name and address of the Authority
6. Name and address of the Department which issued NOC (if objection is raised against such department)
7. Particulars of the Plot
8. Noting of site inspection (stating the changes to be made by the applicant in works executed, if applicable, or certifying the works executed)
9. Acknowledgement of applicant, professional on record and designated officer of the department (if applicable)
10. Date of inspection
11. Date of submission of report

**FORM-XIII**

**DETAILS TO BE CONTAINED IN COMPLETION CERTIFICATE ISSUED BY THE PRINCIPAL PROFESSIONAL ON RECORD, SUPERVISING THE WORKS.**

1. Name and address of ULB with logo
2. Type of building licence issued
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,) as built in site
10. Details of certification by empanelled professional
11. Signature of Professional on record for supervision

**FORM-XIV****DETAILS TO BE CONTAINED IN THE OCCUPATION CERTIFICATE.**

1. Name and address of ULB with logo
2. Type of building licence issued
3. Building licence no. and date
4. Plot approval details
5. Particulars of Plot
6. Name and address of Applicant
7. Name and address of Professionals on record for drawings
8. Name and address of Professionals on record for supervision
9. Particulars of the building (floor area, construction area, parking details, etc.,)
10. Approvals received from other departments which issued NOCs
11. Details of completion certificate
12. Details of certification by empanelled professional
13. Other Terms and conditions of occupation
14. Date and no. of occupation certificate
15. Seal and signature of CEO

**FORM-XV****CERTIFICATE OF STRUCTURAL DESIGN & SAFETY**

1. Name and the address of the Applicant;
2. Particulars of the Plot;
3. Building license sanctioned date;
4. Date of inspection;
5. A statement, stating that certifying that the building is structurally safe and the construction is in accordance with the specified designs

**FORM-XVI****CERTIFICATE OF QUALITY CONTROL**

1. Name and the address of the Applicant;
2. Particulars of the Plot;
3. Building license sanctioned date;
4. Date of inspection;
5. Written statement submitted Quality Auditor on Record (QAR) affirming that the building meets the standard specification.

By Order and in the name of the Governor of Karnataka

**NAGARAJ**  
Under Secretary to Government  
Urban Development Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೧೫, ೨೦೧೭ (ಆಷಾಡ್ ೨೪, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೬೮೯ No. 689
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ಕಾರ್ಮಿಕ ಸಚಿವಾಲಯ

ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ: ಕಾಇ 5 ಎಲ್ಲಾಡಬ್ಲೋವ್ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 14-07-2017

ಕ್ರಿಗಾರಿಕಾ ವಿವಾದಗಳ ಅಧಿನಿಯಮ 1947ರ (ಕೇಂದ್ರಾಧಿನಿಯಮ 1947ರ ಸಂಖ್ಯೆ:14) ಕಲಂ 2 ಖಂಡ (n) ಉಪಖಂಡ (vi)ರ ಮೇರೆಗೆ “ಕನಾಟಕ ರಾಜ್ಯ ರಸ್ತೆ ಸಾರಿಗೆ ನಿಗಮ” ವನ್ನು ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ: ಕಾಇ 5 ಎಲ್ಲಾಡಬ್ಲೋವ್ 2017, ದಿನಾಂಕ: 24-01-2017ರಲ್ಲಿ “ಸಾರ್ವಜನಿಕ ಉಪಯುಕ್ತ ಸೇವೆ” ಎಂಬುದಾಗಿ ದಿನಾಂಕ: 01-01-2017ರಿಂದ ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಯವರೆಗೆ ಜಾರಿಯಲ್ಲಿರುವಂತೆ ಘೋಷಿಸಲಾಗಿತ್ತು;

ಸಾರ್ವಜನಿಕ ಹಿತದ್ವಾಣಿಯಿಂದ ಸದರಿ ಅವಧಿಯನ್ನು ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಗೆ ವಿಸ್ತರಿಸಲು ಸರ್ಕಾರವು ಪರಿಗಣಿಸಿದೆ. ಆದುದರಿಂದ, ಕ್ರಿಗಾರಿಕಾ ವಿವಾದಗಳ ಅಧಿನಿಯಮ 1947 (ಕೇಂದ್ರಾಧಿನಿಯಮ 1947ರ ಸಂಖ್ಯೆ:14) ಕಲಂ 2 ಖಂಡ (n) ಉಪಖಂಡ (vi)ರ ಮೇರೆಗೆ ಪ್ರದರ್ಶನಾದ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ, “ಕನಾಟಕ ರಾಜ್ಯ ರಸ್ತೆ ಸಾರಿಗೆ ನಿಗಮ” ವನ್ನು “ಸಾರ್ವಜನಿಕ ಉಪಯುಕ್ತ ಸೇವೆ” ಎಂಬುದಾಗಿ ದಿನಾಂಕ: 01-07-2017ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಯವರೆಗೆ ವಿಸ್ತರಿಸಿ ಘೋಷಿಸಲಾಗಿದೆ.

ಕನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಎ.ಎನ್. ರಾಧಾಮಣಿ  
ಸರ್ಕಾರದ ಅಧೀಕ್ಷ ಕಾರ್ಯದಲ್ಲಿ  
ಕಾರ್ಮಿಕ ಇಲಾಖೆ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೧೫, ೨೦೧೭ (ಅಷಾಡ್ ೨೪, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೬೮೦ No. 690
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ಕಾರ್ಮಿಕ ಸಚಿವಾಲಯ

ಅಧಿಕೂಟನೆ

ಸಂಖ್ಯೆ: ಕಾಇ 6 ಎಲೋಡಬ್ಲ್ಯಾಕ್ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 14-07-2017

ಕ್ರಿಗಾರಿಕಾ ವಿವಾದಗಳ ಅಧಿನಿಯಮ 1947ರ (ಕೇಂದ್ರಾಧಿನಿಯಮ 1947ರ ಸಂಖ್ಯೆ:14) ಕಲಂ 2 ಖಂಡ (n) ಉಪವಿಂಡ (vi)ರ ಮೇರೆಗೆ “ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ಸಂಸ್ಥೆ”ಯನ್ನು ಅಧಿಕೂಟನೆ ಸಂಖ್ಯೆ: ಕಾಇ 6 ಎಲೋಡಬ್ಲ್ಯಾಕ್ 2017, ದಿ: 24-01-2017ರಲ್ಲಿ ಸಾರ್ವಜನಿಕ ಉಪಯುಕ್ತ ಸೇವೆ ಎಂಬುದಾಗಿ ದಿನಾಂಕ: 03-12-2016ರಿಂದ ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಯವರೆಗೆ ಜಾರಿಯಲ್ಲಿರುವಂತೆ ಘೋಷಿಸಲಾಗಿತ್ತು.

ಸಾರ್ವಜನಿಕ ಹಿತದ್ವಿಷಯಿಂದ ಸದರಿ ಅವಧಿಯನ್ನು ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಗೆ ವಿಸ್ತರಿಸಲು ಸರ್ಕಾರವು ಪರಿಗಣಿಸಿದೆ. ಆದುದರಿಂದ, ಕ್ರಿಗಾರಿಕಾ ವಿವಾದಗಳ ಅಧಿನಿಯಮ 1947 (ಕೇಂದ್ರಾಧಿನಿಯಮ 1947ರ ಸಂಖ್ಯೆ:14) ಕಲಂ 2 ಖಂಡ (n) ಉಪವಿಂಡ (vi)ರ ಮೇರೆಗೆ ಪ್ರದರ್ಶನಾದ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ “ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ಸಂಸ್ಥೆ” ಯನ್ನು “ಸಾರ್ವಜನಿಕ ಉಪಯುಕ್ತ ಸೇವೆ” ಎಂಬುದಾಗಿ ದಿನಾಂಕ: 03-06-2017 ರಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಮುಂದಿನ 6 ತಿಂಗಳ ಅವಧಿಯವರೆಗೆ ವಿಸ್ತರಿಸಿ ಘೋಷಿಸಲಾಗಿದೆ.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಎ.ಎನ್. ರಾಧಾಮಣಿ  
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ  
ಕಾರ್ಮಿಕ ಇಲಾಖೆ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು ಬೆಂಳಾರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಳಾರು, ಸೋಮವಾರ, ಜುಲೈ ೧೭, ೨೦೧೭ (ಅಷಾಡ ೨೬, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 17, 2017 (Ashada 26, Shaka Varsha 1939)	ನಂ. ೬೬೧ No. 661
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**MINORITY WELFARE HAJ AND WAKF SECRETARIAT  
NOTIFICATION**  
**NO. MWD 30 WES 2017 P, Bengaluru, dated: 17.07.2017**

In exercise of the powers conferred under Sec. 14 of the Wakf Act 1995 and Wakf (Amendment) Act 2013 read with Rule 11 of the Karnataka Wakf Rules 2017, the Government of Karnataka is hereby appointed Smt. M.V. Jayanti, IAS., Regional Commissioner, Bangalore Division, Bangalore, BMTC Bus Station (Upstairs) Shantinagar, Bangalore as on **Electoral Registration Officer for the preparation of Electoral Rolls to the four Electoral Colleges as per the provisions of Section 14(1) (b) (i to iv) of Wakf (Amendment) Act 2013 in connection with the Election of the Members of the Karnataka State Board of Auqaf, Bangalore.**

By order and in the name of the Governor of Karnataka,

**AKRAM BHASHA**  
Under Secretary to Government  
Minority Welfare Haj & Wakf Department



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಸೋಮವಾರ, ಜುಲೈ ೧೭, ೨೦೧೭ (ಅಷಾಡ ೨೬, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 17, 2017 (Ashada 26, Shaka Varsha 1939)	ನಂ. ೪೮೯ No. 692
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**PARLIAMENTARY AFFAIRS SECRETARIAT**

**NOTIFICATION**

**NO. DPAL 22 SHASANA 2016, Bengaluru, dated: 17.07.2017**

Ordered that the translation of the ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಗಳಲ್ಲಿ ಪಾರದರ್ಶಕತೆ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2016 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 31) in the English language, be published as authorised by the Governor of Karnataka under clause (3) of Article 348 of the constitution of India in the Karnataka Gazette for general information.

The following translation of the ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಗಳಲ್ಲಿ ಪಾರದರ್ಶಕತೆ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2016 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 31) in the English language is published in the Official Gazette under the authority of the Governor of Karnataka under clause (3) of Article 348 of the Constitution of India.

**KARNATAKA ACT NO. 31 OF 2017**

(First Published in the Karnataka Gazette Extra-ordinary on the 29<sup>th</sup> day of June, 2017)

**THE KARNATAKA TRANSPARENCY IN PUBLIC PROCUREMENTS (AMENDMENT) ACT, 2016**

(Received the assent of the President on the 20<sup>th</sup> day of June, 2017)

An Act further to amend the Karnataka Transparency in Public Procurements Act, 1999.

Whereas it is expedient further to amend the Karnataka Transparency in Public Procurements Act, 1999 (Karnataka Act 28 of 2000) for the purposes hereinafter appearing;

Be it enacted by the Karnataka State Legislature in the sixty seventh year of the Republic of India as follows:-

**1. Short title and commencement.**- (1) This Act may be called the Karnataka Transparency in Public Procurements (Amendment) Act, 2016.

(2) It shall come into force at once.

**2. Amendment of section 6.**- In the Karnataka Transparency in Public Procurements Act, 1999 (Karnataka Act 28 of 2000), after Section 6, the following shall be inserted, namely:-

"Provided that, the tender inviting authority shall, in the notified Departments out of those construction works, value of which does not exceed Rs.50.00 Lakhs such number of works not exceeding 17.15 percent be tendered only among the tenderers belonging to the Scheduled Castes Category and such number of works not exceeding 6.95 percent be tendered only among tenderers belonging to the Scheduled Tribes Category, by taking out notices, communications and publications required to be taken following the prescribed procedures:

Provided further that, if no tender from persons belonging to the Scheduled Castes or Scheduled Tribes as the case may be, is received in response to the invitation in two attempts such works may be tendered among others.

**Explanation:-** For the purpose of this proviso,-

(1) "Scheduled Castes" shall have reference to the Scheduled Castes specified in part VII of the Constitution (Scheduled Castes) Order, 1950 made under Article 341 of the Constitution of India and as amended from time to time;

(2) "Scheduled Tribes" shall have reference to the Scheduled Tribes specified in part VI of the Constitution (Scheduled Tribes) Order, 1950 made under Article 342 of the Constitution of India and as amended from time to time;"

The above translation of ಕನಾರಂಡಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಗಳಲ್ಲಿ ಪಾರದರ್ಶಕತೆ (ತಿದ್ಯುಪದಿ) ಅಧಿನಿಯಮ, 2016 (2017ರ ಕನಾರಂಡಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 31) be published in the Official Gazette under clause (3) of Article 348 of the Constitution of India.

**VAJUBHAI VALA  
GOVERNOR OF KARNATAKA**

By order and in the name of the Governor of Karnataka,

**K. DWARAKANATH BABU**  
Secretary to Government  
Department of Parliamentary Affairs



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಷ್ಟ ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಳಿಷ್ಟಾರು, ಸೋಮವಾರ, ಜುಲೈ ೧೭, ೨೦೧೭ (ಅಷಾಡ ೨೬, ಶತ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 17, 2017 (Ashada 26, Shaka Varsha 1939)	ನಂ. ೪೯೫ No. 693
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ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳ ಸಚಿವಾಲಯ  
ಅಧಿಕೂಟನೆ

ಸಂಖ್ಯೆ: ಸಂಪೂರ್ಣ 27 ಶಾಸನ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 17-07-2017

ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿದ್ದುಪಡಿ) ವಿಧೇಯಕ, 2017ಕ್ಕೆ 2017ರ ಜುಲೈ ತಿಂಗಳ ಹದಿನಾಲ್ಕನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರ ಒಪ್ಪಿಗೆ ದೊರೆತಿದ್ದು, ಸಾಮಾನ್ಯ ತಿಳಿವಳಿಕೆಗಾಗಿ ಇದನ್ನು 2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ:38 ಎಂಬುದಾಗಿ ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಬೇಕೆಂದು ಆದೇಶಿಸಲಾಗಿದೆ.

## 2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 38

(2017ರ ಜುಲೈ ತಿಂಗಳ ಹದಿನೇಳನೇ ದಿನಾಂಕದಂದು ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪತ್ರದ ವಿಶೇಷ ಸಂಚಿಕೆಯಲ್ಲಿ ಮೊದಲು ಪ್ರಕಟವಾಗಿದೆ)

ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017

(2017ರ ಜುಲೈ ತಿಂಗಳ ಹದಿನಾಲ್ಕನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರಿಂದ ಒಪ್ಪಿಗೆಯನ್ನು ಪಡೆಯಲಾಗಿದೆ)

ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) ಅಧಿನಿಯಮ, 2013ಕ್ಕೆ ತಿದ್ದುಪಡಿ ಮಾಡಲು ಒಂದು ಅಧಿನಿಯಮ;

ಇಲ್ಲಿ ಇನ್ನು ಮುಂದೆ ಕಂಡು ಬರುವ ಉದ್ದೇಶಗಳಾಗಿ ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) ಅಧಿನಿಯಮ, 2013ಕ್ಕೆ (2013ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ 65) ತಿದ್ದುಪಡಿ ಮಾಡುವುದು ಯುಕ್ತವಾಗಿರುವುದರಿಂದ;

ಇದು ಭಾರತ ಗಣರಾಜ್ಯದ ಅರವತ್ತೆಂಟನೇ ವರ್ಷದಲ್ಲಿ ಕರ್ನಾಟಕ ವಿಧಾನ ಮಂಡಳಿದಿಂದ ಈ ಮುಂದಿನಂತೆ ಅಧಿನಿಯಮಿತವಾಗತಕ್ಕದ್ದು;—

1. ಸಂಕ್ಷಿಪ್ತ ಹೆಸರು ಮತ್ತು ಪ್ರಾರಂಭ.— (1) ಈ ಅಧಿನಿಯಮವನ್ನು ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 ಎಂದು ಕರೆಯತಕ್ಕದ್ದು.

(2) ಇದು ಈ ಕೂಡಲೇ ಜಾರಿಗೆ ಬರತಕ್ಕದ್ದು.

**2. ಪದಾವಳಿಯ ಪ್ರತಿಯೋಜನೆ.** - ಕನಾರಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) ಅಧಿನಿಯಮ, 2013ರಲ್ಲಿ (2013ರ ಕನಾರಟಕ ಅಧಿನಿಯಮ 65) (ಇಲ್ಲಿ ಇನ್ನುಮುಂದೆ ಮೂಲ ಅಧಿನಿಯಮವೆಂದು ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ) ಶೀಷಿಕೆ, ಪ್ರಸ್ತಾವನೆ, ಚಿಕ್ಕ ಹೆಸರು ಮತ್ತು ಅಧಿನಿಯಮದಲ್ಲಿ,-

(i) "ಯೋಜನೆ" ಅಥವಾ "ಯೋಜನಾ ವೆಚ್ಚು" ಅಥವಾ "ವಾರ್ಷಿಕ ಯೋಜನೆ" ಎಂಬ ಪದಗಳು ಬರುವೆಡೆಗಳಲ್ಲಿಲ್ಲ "ಹಂಚಿಕೆ ಮಾಡಬಹುದಾದ ಆಯವ್ಯಯ" ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತ್ಯೆಯಗಳೊಡನೆ ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು; ಮತ್ತು

(ii) "ಉಪಯೋಜನೆ" ಎಂಬ ಪದವು ಬರುವೆಡೆಗಳಲ್ಲಿಲ್ಲ "ಉಪಹಂಚಿಕೆ" ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತ್ಯೆಯಗಳೊಂದಿಗೆ ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು;

**3. 2ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.** - ಮೂಲ ಅಧಿನಿಯಮದ 2ನೇ ಪ್ರಕರಣದಲ್ಲಿ,-

(i) (ಎ) ಖಂಡಕ್ಕೆ (ಎಂದು ಖಂಡ ಮರುಸಂಖ್ಯೆ ನೀಡತಕ್ಕದ್ದು, ಮತ್ತು ಹಾಗೆ ಮರುಸಂಖ್ಯೆ ನೀಡಲಾದ (ಎಂದಕ್ಕೆ ಮೌದಲು ಈ ಮುಂದಿನದನ್ನು ಸೇರಿಸತಕ್ಕದ್ದು, ಎಂದರೆ.-

"(ಎ)" "ಹಂಚಿಕೆ ಮಾಡಬಹುದಾದ ಆಯವ್ಯಯ" ಎಂದರೆ, ವಿನಾಯಿತಿಸಲಾದ ವೆಚ್ಚವನ್ನು ಹೊರತುಪಡಿಸಿ ರಾಜ್ಯದ ಸಂಚಿತ ನಿಧಿಯಲ್ಲಿನ ಒಟ್ಟು ವೆಚ್ಚು;

(ii) ಹಾಗೆ ಮರುಸಂಖ್ಯೆ ನೀಡಲಾದ (ಎಂದು ಖಂಡದ ತರುವಾಯ ಈ ಮುಂದಿನದನ್ನು ಸೇರಿಸತಕ್ಕದ್ದು, ಎಂದರೆ;-

(ಎಂಬಿ) "ವಿನಾಯಿತಿಸಲಾದ ವೆಚ್ಚು" ಎಂದರೆ, ಈ ಅಧಿನಿಯಮದ ಅನ್ವಯದಿಂದ ವಿನಾಯಿತಿಗೊಳಿಸಲಾದ ವೆಚ್ಚು ಮತ್ತು ಇದು ವೇತನ, ವೇತನ ಸಹಾಯಾನುದಾನ, ಪಿಂಚೆಸೆ, ಆಡಳಿತಾತ್ಮಕ ವೆಚ್ಚು, ಮೂಲಧನ ಮರುಸಂದಾಯ ಮತ್ತು ರಾಜ್ಯ ಸರ್ಕಾರದ ತನ್ನದೇ ಸಾಲಗಳ ಲೆಕ್ಕದ ಮೇಲೆ ಬಡ್ಡಿ ಸಂದಾಯ ಮತ್ತು ರಾಜ್ಯ ಸರ್ಕಾರದ ಉದ್ಯಮಗಳ ಮೂಲಕ ಆಯವ್ಯಯ-ಹೊರತಾದ ಸಾಲಗಳು ಹಾಗೂ ರಾಜ್ಯ ಸರ್ಕಾರವು ಅಧಿಸೂಚಿಸಿದ ಆಡಳಿತಾತ್ಮಕ ಸ್ವರೂಪದ ಇತರ ಯಾವುದೇ ವೆಚ್ಚವನ್ನು ಒಳಗೊಳ್ಳುತ್ತದೆ;"

(iii) (ಎಲೋ) ಖಂಡದಲ್ಲಿ "ಶೇಕಡಾ ನಲವತ್ತಕ್ಕಿಂತ" ಎಂಬ ಪದಗಳಿಗೆ, ನಿಯಮಿಸಬಹುದಾದ ಅಂಥ ಶೇಕಡಾಗಿಂತ" ಎಂಬ ಪದಗಳನ್ನು ಅಲ್ಲವಿರಾಮದೊಂದಿಗೆ ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

(iv) (ಎನ್ನೋ) ಖಂಡವನ್ನು ಬಿಬ್ಬಿಬಿಡತಕ್ಕದ್ದು.

**4. 3ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.** - ಮೂಲ ಅಧಿನಿಯಮದ 3ನೇ ಪ್ರಕರಣದ (2)ನೇ ಉಪಪ್ರಕರಣದಲ್ಲಿ,-

(i) (ಬಿ) ಬಾಬಿಗೆ ಸಂಬಂಧಿಸಿದ ನಮೂದುಗಳಲ್ಲಿ "ಪದನಿಮಿತ್ತ ಸದಸ್ಯರು" ಎಂಬ ಪದಗಳಿಗೆ "ಉಪಾಧ್ಯಕ್ಷರು" ಎಂಬ ಪದವನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

(ii) (ಜಿ) ಬಾಬಿನ ಮತ್ತು ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ನಮೂದುಗಳ ತರುವಾಯ ಈ ಮುಂದಿನದನ್ನು ಸೇರಿಸತಕ್ಕದ್ದು, ಎಂದರೆ;-

"(ಜಿಎ) ಸರ್ಕಾರದ ಮುಖ್ಯಕಾರ್ಯದರ್ಶಿ - ಪದನಿಮಿತ್ತ ಸದಸ್ಯರು"

**5. 5ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.** - ಮೂಲ ಅಧಿನಿಯಮದ 5ನೇ ಪ್ರಕರಣದ (1)ನೇ ಉಪಪ್ರಕರಣದಲ್ಲಿ, ಕುಮಸಂಖ್ಯೆ (3)ಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ನಮೂದುಗಳಲ್ಲಿ, "ಪದನಿಮಿತ್ತ ಸದಸ್ಯರು" ಎಂಬ ಪದಗಳಿಗೆ "ಪದನಿಮಿತ್ತ ಸದಸ್ಯ ಕಾರ್ಯದರ್ಶಿ" ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

**6. 11ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.** - ಮೂಲ ಅಧಿನಿಯಮದ 11ನೇ ಪ್ರಕರಣದ (2)ನೇ ಉಪಪ್ರಕರಣದ ತರುವಾಯ ಈ ಮುಂದಿನದನ್ನು ಸೇರಿಸತಕ್ಕದ್ದು, ಎಂದರೆ:-

"(3) ಸರ್ಕಾರವು ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಹಂಚಿಕೆ ಮತ್ತು ಬುಡಕಟ್ಟುಗಳ ಉಪ ಹಂಚಿಕೆಯ ಅನುಷ್ಠಾನಕ್ಕಾಗಿ ಹೊಣೆಯಾಗುವ ತಾಲ್ಲೂಕು ಮುಂದು ಮೇಲ್ವಿಚಾರಣಾ ಸಮಿತಿಗಳನ್ನು ನಿಯಮಿಸಬಹುದಾದ ಅಂಥ ಸದಸ್ಯರೊಂದಿಗೆ ಮತ್ತು ಅಂಥ ವಿಧಾನದಲ್ಲಿ ರಚಿಸಬಹುದು."

**7. 13ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.**— ಮೂಲ ಅಧಿನಿಯಮದ 13ನೇ ಪ್ರಕರಣದಲ್ಲಿ, “ಒಂದು ನಿರ್ದಿಷ್ಟ ಹಣಕಾಸು ವರ್ಷದ ಹಂಚಿಕೆ ಮಾಡಿರುವ ಮೊತ್ತವು ವಿಚಾರಗದೆ ಉಳಿದ ಸಂದರ್ಭದಲ್ಲಿ, ಅದನ್ನು ಮುಂದಿನ ಹಣಕಾಸು ವರ್ಷದ ಹಂಚಿಕೆಗೆ ಸೇರಿಸಬಹುದು,” ಎಂಬ ಪದಗಳಿಗೆ “ಒಂದು ನಿರ್ದಿಷ್ಟ ಬೇಡಿಕೆಯಲ್ಲಿ, ಲೆಕ್ಕೆ ಪರಿಶೋಧಿತ ಲೆಕ್ಕಾಗಳ ಪ್ರಕಾರ ನಿರ್ಧರಿಸಿದ ನಿರ್ದಿಷ್ಟ ಹಣಕಾಸು ವರ್ಷದಲ್ಲಿನ ಹಂಚಿಕೆಯ ಪ್ರಕ್ರಿಯೆ ಮಾಡಿರುವ ಮೊತ್ತದ ಸಂದರ್ಭದಲ್ಲಿ, ಅದನ್ನು ಅನುಕ್ರಮವಾಗಿ 2:1 ಅನುಪಾತದಲ್ಲಿ ಸಂಬಂಧಪಟ್ಟ ಆಡಳಿತಾತ್ಮಕ ಇಲಾಖೆಯ ಅದೇ ಬೇಡಿಕೆಗೆ ಮತ್ತು ಸಮಾಜ ಕಲ್ಯಾಣ ಇಲಾಖೆಯ ಬೇಡಿಕೆಗೆ, ನಿಕಟ ತರುವಾಯ ಬರುವ ಹಣಕಾಸು ವರ್ಷದ ನಂತರದ ಮುಂದಿನ ಹಣಕಾಸು ವರ್ಷದ ಹಂಚಿಕೆಗೆ ಸೇರಿಸಬಹುದು” ಎಂಬ ಪದಗಳು ಮತ್ತು ಅಂಕಿಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

**8. 15ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.**— ಮೂಲ ಅಧಿನಿಯಮದ 15ನೇ ಪ್ರಕರಣದಲ್ಲಿನ ಪರಂತುಕದಲ್ಲಿ, “ವಾರ್ಷಿಕ ಮತ್ತು ಪಂಚವಾರ್ಷಿಕ ಯೋಜನೆಗಳಿಗೆ ಹಾಗೂ ಯೋಜನಾ ಇಲಾಖೆಯು ಸೂಚಿಸಬಹುದಾದಂಥ ಕನಾರಟಕ ಸರ್ಕಾರದ ಆಧ್ಯಾತ್ಮಿಕ ಪದಗಳಿಗೆ” ಎಂಬ ಪದಗಳಿಗೆ “ಯೋಜನಾ ಇಲಾಖೆಯು ಸೂಚಿಸಬಹುದಾದಂಥ ಕನಾರಟಕ ರಾಜ್ಯದ ಅಭಿವೃದ್ಧಿ ಆಧ್ಯಾತ್ಮಿಕ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

ಕನಾರಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಕೆ. ದ್ವಾರಕನಾಥ್ ಬಾಬು  
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ  
ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳ ಇಲಾಖೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಷ್ಟ ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-IVA Part-IVA	ಬೆಂಳಿಷ್ಟಾರು, ಸೋಮವಾರ, ಜುಲೈ ೧೭, ೨೦೧೭ (ಅಷಾಡ ೨೬, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 17, 2017 (Ashada 26, Shaka Varsha 1939)	ನಂ. ೪೫೪ No. 694
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## PARLIAMENTARY AFFAIRS SECRETARIAT

### NOTIFICATION

NO. DPAL 27 SHASANA 2017, Bengaluru, dated: 17.07.2017

Ordered that the translation of the ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 38) in the English language, be published as authorised by the Governor of Karnataka under clause (3) of Article 348 of the constitution of India in the Karnataka Gazette for general information.

The following translation of the ಕರ್ನಾಟಕ ಅನುಸೂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುಡಕಟ್ಟು ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 38) in the English language is published in the Official Gazette under the authority of the Governor of Karnataka under clause (3) of Article 348 of the Constitution of India.

### KARNATAKA ACT NO. 38 OF 2017

(First published in the Karnataka Gazette Extra-ordinary on the seventeenth day of July, 2017)

### THE KARNATAKA SCHEDULED CASTES SUB-PLAN AND TRIBAL SUB-PLAN (PLANNING, ALLOCATION AND UTILIZATION OF FINANCIAL RESOURCES) (AMENDMENT) ACT, 2017

(Received the assent of the Governor on the fourteenth day of July, 2017)

An Act to amend the Karnataka Scheduled Castes Sub-Plan and Tribal sub-plan (Planning, Allocation and Utilization of Financial Resources) Act, 2013;

Whereas it is expedient to amend the Karnataka Scheduled Castes Sub-Plan and Tribal sub-plan (Planning, Allocation and Utilization of Financial Resources) Act, 2013 (Karnataka Act 65 of 2013) for the purposes hereinafter appearing;

Be it enacted by Karnataka State Legislature in the sixty-eighth year of the Republic of India as follows:-

**1. Short title and commencement.-** (1) This Act may be called the Karnataka Scheduled Castes Sub-Plan and Tribal sub-plan (Planning, Allocation and Utilization of Financial Resources) (Amendment) Act, 2017.

(2) It shall come into force at once.

**2. Substitution of expression.-** In the Karnataka Scheduled Castes Sub-Plan and Tribal sub-plan (Planning, Allocation and Utilization of Financial Resources) Act, 2013 (Karnataka Act 65 of 2013) (hereinafter referred to as the principal Act) in the title, preamble, short title and in the Act,-

- (i) for the words "plan" or "plan outlay" or "annual plan" wherever they occur, the words "allocable budget" shall be substituted; and
- (ii) for the words "sub-plan" wherever they occur, the words "sub-allocation" shall be substituted.

**3. Amendment of section 2.-** In section 2 of the principal Act,-

(i) clause (a) shall be renumbered as clause (aa), and before clause (aa) as so renumbered the following shall be inserted, namely:-

"(a) "allocable Budget" means the total expenditure in the Consolidated Fund of the State excluding exempted expenditure;

(ii) after clause (aa) as so renumbered the following shall be inserted, namely:-

(ab) "exempted expenditure" means the expenditure exempted from the applicability of this Act and includes expenditure on salary, salary Grant in aid, pension, administrative expenditure, principal repayment and interest payment on account of the State Government's own borrowings and off-budget borrowings by the State Government Undertakings and any other expenditure of administrative nature notified by the Government;"

(iii) in clause (l), for the words "forty percent", the words "such percentage as may be prescribed" shall be substituted.

(iv) clause (n), shall be omitted.

**4. Amendment of section 3.-** In section 3 of the principal Act, in sub-section (2),-

(i) in the entries relating item (b), for the words "Ex-officio Member", the words "Vice-Chairman" shall be substituted;

(ii) after item (g) and entries relating thereto the following shall be inserted, namely:-

"(ga) The Chief Secretary to Government - Ex-officio member"

**5. Amendment of section 5.-** In section 5 of the principal Act, in sub-section (1), in the entries relating to serial number (3), for the words "Ex-officio Member", the words "Ex-officio Member Secretary" shall be substituted.

**6. Amendment of section 11.-** In section 11 of the principal Act, after sub-section (2) the following shall be inserted, namely:-

"(3) The Government may constitute at taluka level Monitoring Committees in such manner with such Members as may be prescribed which shall also be responsible for implementation of the Scheduled Castes sub allocation and Tribal sub allocation."

**7. Amendment of section 13.**- In section 13 of the principal Act, for the words "In case of unspent amount out of Allocation in a particular financial year, the same may be added to the next year Allocation" the words and figures "In case of unspent amount out of Allocation in a particular financial year, in a particular demand, determined as per the Audited Accounts, the same may be added to the allocation for the financial year, next to the immediately succeeding financial year to the same demand of the concerned Administrative Department and demand of Social Welfare Department in the ratio of 2:1 respectively" shall be substituted.

**8. Amendment of section 15.**- In section 15 of the principal Act, in proviso, for the words "Annual and Five Year Plans and", the word "Development" shall be substituted.

The above translation of ಕರ್ನಾಟಕ ಅನುಸಂಚಿತ ಜಾತಿಗಳ ಉಪಯೋಜನೆ ಮತ್ತು ಬುದ್ಧಿಕೃತ ಉಪಯೋಜನೆ (ಯೋಜನೆ ರೂಪಿಸುವುದು, ಆರ್ಥಿಕ ಸಂಪನ್ಮೂಲಗಳ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ) (ತಿಷ್ಠಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 38) be published in the Official Gazette under clause (3) of Article 348 of the Constitution of India.

**VAJUBHAI VALA  
GOVERNOR OF KARNATAKA**

By order and in the name of the Governor of Karnataka,

**K. DWARAKANATH BABU**  
Secretary to Government  
Department of Parliamentary Affairs



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

### ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಮಂಗಳವಾರ, ಜುಲೈ ೧೮, ೨೦೧೭ (ಅಷಾಡ ೨೨, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Tuesday, July 18, 2017 (Ashada 27, Shaka Varsha 1939)	ನಂ. ೬೬೫ No. 665
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**COMMERCE AND INDUSTRIES SECRETARIAT**  
**NOTIFICATION**  
**NO. CI 64 MMN 2017, Bengaluru, dated: 18.07.2017**

In exercise of the powers conferred by section 15 of the Mines and Minerals (Regulation and Development) Act, 1957 (Central Act 67 of 1957), the Government of Karnataka, hereby makes the following rules further to amend the Karnataka Minor Mineral Concession Rules, 1994, namely:-

#### RULES

**1. Title and commencement.**- (1) These rules may be called the Karnataka Minor Mineral Concession (Amendment) Rules, 2017.

(2) They shall come into force from the date of their publication in the official gazette.

**2. Amendment of rule 2.**- In the Karnataka Minor Mineral Concession Rules, 1994, (hereinafter referred to as the said rules), in rule 2, in sub-rule(1),-

(i) after clause (a-1-b), the following shall be inserted, namely:-

"(a-1-c) "**Basic Price**" means a minimum percentage of Royalty fixed by the State Government in tender document for the purpose of auction;"

(ii) after clause (d-6) the following shall be inserted, namely:-

"(d-6-a) "**Floor Price**" means the highest price offered by the technically qualified bidders in the financial bid, which shall be the starting price over which auction shall be conducted;"

(iii) for clause (d-7) the following shall be substituted, namely:-

"(d-7) "**ILMS**" means Integrated Lease Management System, a dedicated online platform for mineral administration of the Department of Mines and Geology;

(d-8) "**Initial Price Offer**" means price offered in the financial bid by the bidders for the purpose of floor price discovery for the auction;" and

(iv) for clause (k-5) the following shall be substituted, namely:-

"(k-5) "**River bank**" means the rising land bordering a river;"

**3. Amendment of rule 3-A.-** In rule 3-A of the said rules,-

- (i) in clause (a), after the words "wells for water" the words and punctuations, "desilting ponds or tanks other than sand" shall be inserted;
- (ii) in clause (b) after the words "removal of minor mineral" the words "except sand" shall be inserted; and
- (iii) in the second proviso, for the word, letter and brackets "clause (b)" the words, letters and brackets "clauses (a) and (b)" shall be substituted.

**4. Amendment of rule 3-E.-** In rule 3-E of the said rules, in sub-rule (4),-

- (i) for the first proviso, the following shall be substituted, namely:-

"Provided that if the mineral so discovered under sub rule(1) is specified minor mineral, the lessee is entitled to win and dispose the discovered minor mineral for a period of thirty years from the date of original grant of lease/license or ten years from the date of inclusion of the discovered mineral to original lease deed whichever is later.

Provided further that in case if the new mineral discovered under sub rule-(1) is non specified minor mineral, the period of lease shall be co-terminus with the original grant of lease or licence."; and

- (ii) after first proviso as so substituted, in the existing second proviso for the word "further" the word "also" shall be substituted.

**5. Amendment of rule 8-A.-** In rule 8-A of the said rules,-

- (i) after sub-rule(1), the following shall be inserted, namely:-

"Provided that in respect of all minor minerals which are used by industries and are notified under mineral based industry as under schedule -IB, the quarrying lease or licence shall be granted for a period of thirty years subject to such terms and conditions as may be specified by the State Government from time to time."

- (ii) in sub-rule (2),-

(a) after the words "non specified minor minerals" the words "from the date of its original grant" shall be inserted; and

- (b) after the proviso, the following shall be inserted, namely:-

"Provided further that in respect of all minor minerals where the lessee or licensee is consuming the minor mineral in his mineral based industry as prescribed in the schedule I-B, such lease or licence shall be deemed to have been granted for a period of thirty years from the date of its original grant, subject to such terms and conditions as may be specified by the State Government from time to time."

**6. Amendment of rule 8-B.-** In rule 8-B of the said rules, in sub-rule (2),-

- (i) for clause (d), the following shall be substituted, namely:-

"(d) Applications received and pending for grant of lease or license in case of specified minor minerals before 16.06.2015 and for which No Objection Certificate (NOC) have been received in the office of Directorate of Mines and Geology from the

Deputy Conservator of Forest for all Lands, Deputy Commissioner in case of Kharab lands, Assistant Commissioner (Revenue) and Deputy Director or Senior Geologist (Joint inspection report) in case of Gomala lands in accordance with the Circular No. RD 72 LGP 98, dated 24.2.1999 before commencement of the Karnataka Minor Minerals Concession (Amendment) Rules, 2016 and shall be considered and disposed by the State Government subject to obtaining No Objection Certificate (NOC) from the Deputy Commissioner of the concerned District before grant"; and

- (ii) in clause (e), for the words "twelve months" the words "twenty four months" shall be substituted.

**7. Amendment of rule 8-F.-** In rule 8-F of the said rules, in sub-rule (2), after clause(iii) the following shall be inserted, namely:-

"Provided that use of backhoe equipment as used in digging machinery (like JCB) and screening in river bed sand quarrying shall be in accordance with the guidelines issued by the Ministry of Environment, Forest and Climate Change Government of India (MoEF) from time to time."

**8. Amendment of rule 9-A.-** In rule 9-A of the said rules, in sub-rule (1), after the figure and letter "3-E" the word, figure and letter "and 3-F" shall be inserted.

**9. Amendment of rule 9-D.-** In rule 9-D of the said rules, in sub-rule (1), after the word, figure and letter " 3-B or" the figure, word and letter "3-F or" shall be inserted.

**10. Amendment of rule 16.-** In rule 16 of the said rules, in sub-rule (1), the words "for an applicant selected through auction" shall be omitted.

**11. Amendment of rule 19.-** In rule 19 of the said rules, in sub-rule (1), for the words and figures "granted under rule 11" the words and figures "executed under rule 18" shall be substituted.

**12. Insertion of new rule 19D.-** After rule 19C of the said rules the following shall be inserted, namely:-

**" 19D. Change of name, nationality, etc to be intimated.-** (1) An applicant or the holder of a minor mineral concession shall intimate to the State Government with in sixty days any change that may take place in his name, nationality or other particulars furnished to the State Government.

(2) If the holder of a minor mineral concession fails with out sufficient cause to furnish the information referred to in sub-rule(1) the State Government may impose a fine which may extend to one lakh rupees and in the case of continued contravention of the provisions of sub-rule(1) the State Government may terminate the minor mineral concession:

Provided that no such order shall be made without giving the concession holder a reasonable opportunity of stating his case".

**13. Amendment of rule 31ZA.**- In rule 31ZA of the said rules, in sub-rule (2), for the words and figures "demarcating a 50 meter" the words and figures "demarcating a 50 meter or 10% of the width of the river whichever is more from the banks of the river" shall be substituted.

**14. Amendment of rule 31ZC.**- In rule 31ZC of the said rules, in sub-rule (2), for the letters "DGPS" the letters "GPS" shall be substituted.

**15. Amendment of rule 36.**- In rule 36 of the said rules, in sub-rule (5),-

- (i) for the words " licence shall pay one-fourth of the royalty amount of the permitted annual production quantity" the words "licence in Form-PBS shall pay one-tenth of the royalty amount of the highest permitted annual production quantity mentioned in the environmental clearance in their validity period" shall be substituted; and
- (ii) the words and figures "The same shall be reconciled every year before 30<sup>th</sup> April for the forthcoming year with the prevailing rates of royalty and make the shortfall payments, if any:" shall be omitted.

**16. Amendment of Schedule I-A.**- In the schedule I-A to said rules,-

- (i) In PART-A, in the serial number 15, in column (2), the words "and any other minor mineral used for M-sand purpose" shall be omitted; and
- (ii) In PART-B, in the serial number 23, in column (2), the words "Ordinary Building Stones for other than M-sand purpose" the words "Ordinary Building Stone" shall be substituted.

**17. Amendment of Schedule II-A.**- In the schedule II-A to said rules, after serial number 29 and the entries relating thereto the following shall be inserted, namely:-

"

30.	Sand (patta land)	5.00
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"

**18. Insertion of new FORM-PBS.**- After FORM-AQP of the said rules, the following shall be inserted, namely:-

**" FORM - PBS**  
**[See rule-36(5)]**  
**PERFORMANCE GUARANTEE IN THE FORM OF BANK SECURITY**

(Reference number of the Bank)  
TO,  
The Hon'ble Governor of Karnataka

Date:

WHEREAS

(A) ..... Incorporated in India under the Companies Act, 2013 with corporate identity number [CIN of the applicant]. Whose registered office is at .....xx..... [xx here specify the address of the registered office.....], India and principal place of business is at

.....xx..... [xx here specify the address of principal place of business, if different from registered office.....] (the -Applicant) is required to provide an unconditional and irrevocable bank guarantee for an amount equal to..... INR... [in figures] Indian Rupees words..... [in words.....] as a performance security valid until .....xx.... [xx here specify the date of expiry of performance bank guarantee] (Expiry Date).

Mentioned only for companies, the format to include individuals or other applicants also.

(B) The performance Security is required to be provided to **the Hon'ble Governor of Karnataka, Government of Karnataka** for discharge of certain obligations under the [reference to the principal documents-prospecting license mining/quarrying lease, mine development and production agreement] dated:..... with respect to [particulars of concession] (collectively the "Concession Document").

(C) We.....xx..... [xx here specify the name of the bank] (the Bank) at the request of the Applicant do hereby undertake to pay to the Government of Karnataka an amount not exceeding INR... [in figures] (Indian Rupees) **Guarantee Amount**) to secure the obligations of the Applicant under the Concession Document on demand from the Government of Karnataka on the terms and conditions herein contained herein.

**NOW THEREFORE.** The Bank hereby issues in favour of the Government of Karnataka this irrevocable and unconditional payment bank guarantee the (**Guarantee**) on behalf of the Applicant in the Guarantee Amount;

(1) The Bank for the purpose hereof unconditionally and irrevocably undertakes to pay to the Government of Karnataka without any demur, reservation, caveat, protest or recourse, immediately on receipt of first written demand from the Government of Karnataka a sum or sums (by way of one or more claims) not exceeding the Guarantee Amount in the aggregate without the Government of Karnataka needing to prove or to show to the Bank grounds or reasons for such demand for the sum specified therein and notwithstanding any dispute or difference between the Government of Karnataka and Applicant on any matter whatsoever. The Bank undertakes to pay to the Government of Karnataka any money so demanded notwithstanding any dispute or disputes raised by the applicant in any suit or proceeding pending before any court or tribunal relating thereto the Bank's liability under this present being absolute and unequivocal.

(2) The bank acknowledges that any such demand by the Government of Karnataka of the amounts payable by the bank to the Government of Karnataka shall be final, binding and conclusive evidence in respect of the amounts payable by applicant to the Government of Karnataka under the concession document.

(3) The bank hereby waives the necessity for the Government of Karnataka from demanding the aforesaid amount or any part thereof from the applicant and also waives any right that the bank may have of first requiring the Government of Karnataka to pursue its legal remedies against the applicant, before presenting any written demand to the bank for payment under this Guarantee.

(4) The bank further unconditionally agrees with the Government of Karnataka that the Government of Karnataka shall be at liberty, without the banks consent and without affecting in any manner the banks obligation under this guarantee, from time to time to,-

- (i) vary and or modify and of the terms and conditions of the Concession Document;
- (ii) extend and/or postpone the time for performance of the obligations of the applicant under the concession document; or
- (iii) forbear or enforce any of the rights exercisable by the Government of Karnataka against the applicant under the terms and conditions of the concession document.

and the bank shall not be relieved from its liability by reason of any such act or omission on the part of the Government of Karnataka or any indulgence by the Government of Karnataka to the applicant or other thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of relieving the bank of its obligations under this guarantee.

(5) Any payment made here under shall be made free and clear of and without deduction for or on account of any present or future taxes, levies, imposts, duties, charges, fees commissions, deductions or withholdings of any nature whatsoever.

(6) The Bank agrees that Government of Karnataka at its option shall be entitled to enforce this Guarantee against the bank as s principal debtor in the first instance without proceeding at the first instance against the applicant.

(7) The Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that specified in the concession document and that it shall continue to be enforceable till all the obligations of the applicant under or by virtue of the said concession document with respect to the performance security have been fully paid and its claims satisfied or discharged or till the Government of Karnataka certifies that the terms and conditions of the Concession Document with respect to the performance security have been fully and properly carried out by the applicant and accordingly discharges this guarantee. Notwithstanding anything contained herein unless a demand or claim under this guarantee is made on the bank in writing on or before the expiry date the bank shall be discharged from all liability under this guarantee thereafter.

(8) the payment so made by the bank under this guarantee shall be a valid discharge of bank's liability for payment there under and the Government of Karnataka shall have no claim against the bank for making such payment.

(9) This guarantee is subject to the laws of India, Any suit, action, or other proceedings arising out of this Guarantee or the subject matter hereof shall be subject to the exclusive jurisdiction of courts at the Government of Karnataka.

(10) The Bank has the power to issue this Guarantee in favour of the Government of Karnataka. This guarantee will not be discharged due to the change in the constitution of the Bank.

(11) The Bank undertakes not to revoke this Guarantee during its currency except with the previous consent of the Government of Karnataka in writing.

(12) The Government of Karnataka may, with prior intimation to the Bank, assign the right under this Guarantee to any other departments, ministries or any governmental agencies. Which may act in the name of the Governor save as provided in this Clause, this Guarantee shall not be assignable or transferable.

(13) Notwithstanding anything contained herein,-

- (a) the liability of the bank under this bank guarantee shall not exceed the Guarantee Amount; and
- (b) this bank guarantee shall be valid up to Expiry Date.

(14) The Bank is liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if the Government of Karnataka serves upon the bank a written claim or demand on or before the Expiry Date.

Date:

Place:

In witness whereof the Bank,  
through its authorized officer has  
set its hand and stamp.

(Signature)

Name and Designation)  
(Bank Stamp)

"

By order and in the name of the Governor of Karnataka

**K. VENKATESH**  
Under Secretary to Govt.(Mines)-2  
Commerce and Industries Department



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೧೯, ೨೦೧೭ (ಅಷಾಡ ೨೮, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Wednesday, July 19, 2017 (Ashada 28, Shaka Varsha 1939)	ನಂ. ೬೯೭ No. 697
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## KARNATAKA ELECTRICITY REGULATORY COMMISSION, NOTIFICATION

No: KERC/D/2/17-18, Bengaluru, dated: 17.07.2017

**Draft KERC (Recovery of Expenditure for Supply of Electricity) (Ninth Amendment) Regulations, 2017.**

### Preamble:

Whereas, the Section 46 of the Electricity Act, 2003, empowers the State Commission to authorize by way of Regulations, a distribution licensee to charge from a person requiring supply of the electricity in pursuance of the Section 43, any expenses reasonably incurred in providing any electrical line or plant used for the purpose of giving that supply, the Commission by virtue of the said powers, read with Section 181 of the Act has notified the "**KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004**" which has been amended from time to time.

Now, the Bangalore Electricity Supply Company Ltd (BESCOM), a distribution licensee, vide its Petition OP No:100 of 2017, filed before the Commission, has requested for amending the Clause 3.2 of these Regulationss so as to provide for only HT/LT UG Cable instead of existing provision of both HT/LT UG Cable and HT/LT AB Cable in respect of layout electrification works carried out under self-execution. The BESCOM has stated that the AB cables are frequently failing causing interruption in supply of power and rectification of faulty AB cables is also taking longer time.

Consequent to this, the Commission has deemed it appropriate to bring in further amendments to the existing KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004 in addition to amendments already proposed in Notification No. KERC/D/2/17-18, in the Karnataka Gazette dated 09.06.2017. Hence, the following draft Regulations are published to invite suggestions / views/objections on the proposed amendments. Interested persons and the stakeholders who desire to file their written objections / suggestions / views, if any, to the said draft Regulations may file the same **on or before 7<sup>th</sup> August, 2017, before the Secretary, KERC, at 9/2, 6<sup>th</sup> & 7<sup>th</sup> Floor, Mahalaxmi Chambers, M.G.Road,Bengaluru-560001.**

### Draft Regulations

#### 1. Title and commencement:

- These regulations may be called as the KERC (Recovery of Expenditure for Supply of Electricity) (Ninth Amendment) Regulations, 2017.
- They shall come into force from the date of their publication in the Official Gazette of the Karnataka State.
- They shall extend to the whole of the State of Karnataka.

**2. Amendment of the KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004.**

In the KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004, the existing clauses (provisions) as in the Column-2 of the table below shall be substituted by the clauses mentioned in Column-3.

1	2	3
Clause No:	Regulation as existing	Regulation as amended / inserted
3.2.1	<p>In the case of layouts approved by the competent authority except improvement /augmentation works in the station and/or works of strengthening of the distribution main, the developer shall execute at his cost the electric line/plant such as extension of works including extension of 11 kV line/UG Cable/AB cable, LT lines /UG cable/AB cable, mounting structure for distribution transformer, etc., and shall deposit with the licensee the cost of distribution transformer and allied materials/equipment required to be installed in the layout as per the estimate prepared at the prevailing schedule of rates by the licensee separately under Deposit Contribution Head.</p> <p>The criteria for assessment of load in a layout shall be as follows:</p>	<p>In the case of layouts approved by the competent authority except improvement /augmentation works in the station and/or works of strengthening of the distribution main, the developer shall execute at his cost the electric line/plant such as extension of works including extension of 11 kV line/UG Cable/<b>AB cable</b>, LT lines /UG cable/<b>AB cable</b>, mounting structure for distribution transformer, etc., and shall deposit with the licensee the cost of distribution transformer and allied materials/equipment required to be installed in the layout as per the estimate prepared at the prevailing schedule of rates by the licensee separately under Deposit Contribution Head.</p> <p>The criteria for assessment of load in a layout shall be as follows:</p>
3.2.1(iv)	<p>The developer shall use Aerial Bunched Cable/UG Cable for 11 kV and LT lines in the new layouts developed in the following places:</p>	<p>The developer shall use <b>Aerial Bunched Cable</b>/UG Cable for 11 kV and LT lines in the new layouts developed in the following places: -</p>

By the order of the Commission

**Dr. SIDDARAMAIAH**  
 Secretary  
 Karnataka Electricity Regulatory Commission



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ಮತ್ತು ಪ್ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೧೯, ೨೦೧೭ (ಅಷಾಡ ೨೮, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Wednesday, July 19, 2017 (Ashada 28, Shaka Varsha 1939)	ನಂ. ೬೯೮ No. 698
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**KARNATAKA ELECTRICITY REGULATORY COMMISSION,  
NOTIFICATION**

**No: KERC/CoS/D/8/17-18, Bengaluru, dated: 17.07.2017**

**Draft Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka (CoS) (Sixth Amendment) 2017**

**Preamble**

The Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka (CoS) were notified in the Karnataka Gazette on 17<sup>th</sup> June, 2006, in exercise of the power conferred by Section 16 of the Electricity Act, 2003, (Central Act No 36 of 2003). Subsequently the said Conditions of Supply have been amended from time to time.

The Bangalore Electricity Supply Company Ltd (BESCOM), a distribution licensee, vide its Petition OP No. 98/2017 filed before the Commission has requested for amendment of Clause 7.03 of these Conditions providing for only HT/LT UG Cable instead of both HT/LT UG Cable and HT/LT AB Cable as existing, in respect of electrification works in industrial layouts of KIADB/KSSIDC/KEONICS/Others carried out by them under self-execution. The BESCOM has stated that the AB cables are frequently failing causing interruption in supply of power and rectification of faulty AB cables is also taking longer time.

Considering the above, the Commission, in exercise of powers conferred by Section 16 of the Electricity Act, 2003 (Act No. 36 of 2003) and the Clause 46 of CoS, has decided to make the following further amendments to the various Clauses of the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka in addition to amendments already proposed in Notification No. KERC/D/8/16-17, in the Karnataka Gazette dated 09.06.2017.

Hence, the following draft of the amendments to the CoS is published inviting suggestions/objections/views from the general public and interested persons. Interested persons may file their suggestions/objections/views, if any, on the proposed amendments to the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka **on or before 7<sup>th</sup> August, 2017, before the Secretary, KERC, at 9/2, 6<sup>th</sup> & 7<sup>th</sup> Floor, Mahalaxmi Chambers, M.G.Road, Bengaluru-560001.**

**Draft Conditions of Supply**

**1. Title and commencement. -**

- (a) This may be called as the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka (CoS) (Sixth Amendment), 2017.
- (b) It shall come into force from the date of its publication in the Official Gazette of the Karnataka State.
- (c) It shall apply to all the Licensees engaged in the business of distribution of electricity and the consumers of electricity in the State of Karnataka.

**2. Amendments of the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka. -**

In the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka, the existing Clause mentioned in the Column-2 of table below shall be substituted by the Clause mentioned in the Column-3.

1	2	3
Clause No:	As existing	As amended / inserted
4.02 (1)(iv)	The Applicant shall indicate in the application form the name and address of the Licensed Electrical contractor (LEC) with whom he intends to get the interior wiring work done.	<b>Deleted</b>
4.03 (ii)(d)	Submit the contractor's completion-cum-test report along with the wiring diagram in duplicate. The applicant shall produce an undertaking on plain paper for having installed the Solar Water heater before issue of the Work order. The Licensee shall acknowledge the receipt of the above documents and issue an acknowledgement slip for having accepted the same.	Submit the <b>Licensed Electrical Contractor's</b> completion - cum - test report along with the wiring diagram in duplicate. The applicant shall produce an undertaking on plain paper for having installed the Solar Water heater before issue of the Work order. The Licensee shall acknowledge the receipt of the above documents and issue an acknowledgement slip for having accepted the same.
7.03	For industrial layouts developed, including the residential buildings constructed for the use of entrepreneurs, as part of industrial area, by the KIADB/KSSIDC/KEONICS/Others, the entire work of 11 kV line/UG Cable/AB cable, LT line /UG cable/AB cable, transformers etc., shall be carried out on self-execution basis by the applicant as per the estimate prepared by the licensee. Supervision charges at 10% on the cost of estimate excluding employees cost and MSD shall be payable subject to a maximum of Rs. 15 lakhs. In such cases, maintenance charges of five (5%) per cent on the total cost of the estimate and recovery of expenditure for supply of electricity as per the KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004 and its amendments from time to time, shall not be collected.	For industrial layouts developed, including the residential buildings constructed for the use of entrepreneurs, as part of industrial area, by the KIADB/KSSIDC/ KEONICS/ Others, the entire work of 11 kV line/UG Cable/ <b>AB cable</b> , LT line /UG cable/ <b>AB cable</b> , transformers etc., shall be carried out on self-execution basis by the applicant as per the estimate prepared by the licensee. Supervision charges at 10% on the cost of estimate excluding employees cost and MSD shall be payable subject to a maximum of Rs. 15 lakhs. In such cases, maintenance charges of five (5%) per cent on the total cost of the estimate and recovery of expenditure for supply of electricity as per the KERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2004 and its amendments from time to time, shall not be collected.

By the order of the Commission

**Dr. SIDDARAMAIAH**  
Secretary  
Karnataka Electricity Regulatory Commission



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೧೯, ೨೦೧೭ (ಅಷಾಡ ೨೮, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Wednesday, July 19, 2017 (Ashada 28, Shaka Varsha 1939)	ನಂ. ೧೦೦ No. 700
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**FINANCE SECRETARIAT**

**NOTIFICATION-I**

**No. FD 09 PES 2017, Bengaluru, Dated: 19.07.2017**

The draft of the following rules further to amend the Karnataka Excise (Regulation of Yield, Production and Wastage of Spirit, Beer, Wine or Liquors) Rules, 1998, which the Government of Karnataka proposes to make in exercise of the powers conferred by section 71 of the Karnataka Excise Act, 1965 (Karnataka Act 21 of 1966) is hereby published as required by sub-section (1) of the said section for the information of all persons likely to be affected thereby and notice is hereby given that the said draft will be taken up for consideration after fifteen days from the date of its publication in the official Gazette.

Any objections or suggestions which may be received by the State Government from any person in respect of the said draft before the expiry of the period specified above will be considered by the State Government. The objections or suggestions may be addressed to the Additional Chief Secretary to Government, Finance Department, Vidhana Soudha, Bengaluru - 560001.

**DRAFT RULES**

**1. Title and commencement.**-(1) These rules may be called the Karnataka Excise (Regulation of Yield, Production and Wastage of Spirit, Beer, Wine or Liquors) (Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the official gazette.

**2. Amendment of Schedule A:-** In the Karnataka Excise (Regulation of Yield, Production and Wastage of Spirit, Beer, Wine or Liquors) Rules, 1998, in Schedule A, in serial number I, for item (a) and the entries relating thereto, the following shall be substituted, namely:-

"(a)	Beer	Malt and Adjuncts	The yield of Beer should not be less than 5% of the total volume of Beer calculated as per the formula given below
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**Formula for standard calculation of beer yield**

<b>Sl. No</b>	<b>Parameter</b>	<b>Assumed values</b>				
1.	Original Gravity (O.G)	1.045 also termed as 45 excess gravity				
2.	Final Gravity (F. G.)	1.005 also termed as 05 excess gravity				
3.	Percent attenuation	$(O.G - F.G) / O.G \times 100 = (45-5) / 45 \times 100 = 88\% \text{ attenuation}$				
4.	Predicted ethanol yield	$(O.G - F.G) \times 131.25 = 5.25\%$				
5.	Volume of Beer	1000 L				
6.	Total Gravity Point ( <b>G.P</b> )	Volume in Litre x Excess O. G. $= 1000 \times 50 = 45,000$				
7.	Raw Material required  Weight of malt in Kg = $\frac{(G.P)}{\% PE \times \% ME \times 384}$  M.E = 90 % P.E = Refer adjacent table	<b>Raw Material</b>	<b>Grist (%)</b>	<b>P.E (%)</b>	<b>Gravity Point</b>	<b>Weight (Kg)</b>
	Base Malt	50	75	22,500	86.80	
	Rice	40	70	18,000	74.40	
	Sugar	10	100	4,500	13.02	
	Total	100	-	45,000	174.71	
8.	From above equation the predicted volume of beer can be calculated from following formula <b>Volume of Beer = (Total wt. of malt/adjunct x % P. E. x % M. E x 384)</b>  <b>(Excess O. G. of wort)</b>					

By order and in the name of the Governor of Karnataka

**Venkatesh.G**  
Under Secretary to Government,  
Finance Department (Excise)

**NOTIFICATION-II**

**No. FD 09 PES 2017, Bengaluru, Dated:19.07.2017**

The draft of the following rules further to amend the Karnataka Excise (Manufacture of Fortified Wine from Grapes) Rules, 1968, which the Government of Karnataka proposes to make in exercise of the powers conferred by section 71 of the Karnataka Excise Act, 1965 (Karnataka Act 21 of 1966) is hereby published as required by sub-section (1) of the said section for the information of all persons likely to be affected thereby and notice is hereby given that the said draft will be taken up for consideration after fifteen days from the date of its publication in the official Gazette.

Any objections or suggestions which may be received by the State Government from any person in respect of the said draft before the expiry of the period specified above will be considered by the State Government. The objections or suggestions may be addressed to the Additional Chief Secretary to Government, Finance Department, Vidhana Soudha, Bengaluru 560001.

**DRAFT RULES**

**1. Title and commencement:-**(1) These rules may be called the Karnataka Excise (Manufacture of Fortified Wine from Grapes) (Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

**2. Amendment of rule 2:-** In the Karnataka Excise (Manufacture of Fortified Wine from Grapes) rules, 1968 (hereinafter referred to as the said rules), in rule 2,--

(i) for clause (1-A) and the entries relating thereto, the following shall be substituted, namely :-

**"(1-A) "Fortified Wine"** means Wine or Fruit Wine, the alcoholic strength of which has been increased by the addition of Grape Neutral Spirit/Grape Spirit (matured for at least two years)/Grain Neutral Spirit/Neutral Spirit and which has alcoholic strength of not more than 16% volume by volume subject to fortification procedure given in sub-rule (9a) of rule 7 is adhered to."

(ii) for clause (1-C) and the entries relating thereto, the following shall be substituted, namely:-

**"(1-C) "Fruit Wine"** means the fermented juice of ripe fruits other than grapes with or without the addition of sugar or sugar syrup, containing self-generated alcohol not less than 7% volume by volume."

(iii) for clause (8) and the entries relating thereto, the following shall be substituted, namely:-

"(8) "**Wine**" means the fermented juice of ripe grapes with or without the addition of sugar or sugar syrup, containing self-generated alcohol not less than 7% v/v and 10% v/v for Bangalore Blue and wine variety grapes respectively.

**Note.-** Addition of sugar/sugar syrup is permitted only to the grape/fruit juice prior to the start of wine fermentation. Excise Officer-in-Charge shall strictly monitor the stock of sugar/sugar syrup, its addition and timing of addition."

**3. Amendment of rule 7.-** In rule 7 of the said rules, after sub-rule (9), the following shall be inserted, namely:-

**"(9a) Fortification of wine shall be made only after.-**

- (i) Fermented wine/Fruit wine is tested by a standard method for its self-generated alcohol content and the latter has reached to a minimum of 7% volume by volume and 10% volume by volume for Bangalore Blue and wine variety grapes respectively, and verified by the Excise Officer-in Charge;
- (ii) Only balance amount of alcohol required to raise the total alcohol content to not more than 16% volume by volume shall be added with prior calculation verified by the Excise Officer-in-Charge; and
- (iii) Fortification with alcohol is not permitted prior to fermentation of grape/fruit juice as the case may be, until 7% v/v or 10% v/v, as the case may be, self-generated alcohol is formed.

Using the following formula to determine the amount of Grape Neutral Spirit/Grape Spirit (matured for at least two years)/Grain Neutral Spirit/Neutral Spirit shall be added (note that this is an adaptation of the universal formula for blending - the *Pearson's Square*):

A = alcohol content (% v/v) of the Grape Neutral Spirit or Grape Spirit (matured for at least two years) or Grain Neutral Spirit or Neutral Spirit;

B = self-generated alcohol content (% v/v) of the wine to be fortified;

C = target alcohol content (% v/v) of the finished wine (fortified wine);

D = Difference in target alcohol content of finished wine – C; and self-generated alcohol content of wine – B (D = C – B);

E = Difference in alcohol content of Grape Neutral Spirit/Grape Spirit (matured for at least two years)/Grain Neutral Spirit/Neutral Spirit – A; and target alcohol content of finished wine – C (E = A – C); and

D ÷ E = Fractional amount of Grape Neutral Spirit/Grape Spirit (matured for at least two years)/Grain Neutral Spirit/Neutral Spirit to be added per litre of wine

**Example.-**

The following is the set-up for 60 litres of typical Ruby Port using 105° British proof/60% v/v matured grape spirit, an 11 brix fortify point and a target finish alcohol content of 16% v/v.

A = 60.0 % v/v, B = 10.2% v/v, C= 16 %v/v, D = (C - B) = 5.8 %v/v,  
E = (A - C) = 44.0

D ÷ E = 0.1318 litre of grape spirit to be added per litre of wine

For 60 litres wine  $60 \times 0.1318 = 7.91$  litre grape spirit (matured for two years) to be added.

60 litres fermented grape juice (with 10.2 % v/v self-generated alcohol) + 7.91 litres addition of grape spirit (with 60% v/v alcohol) = 67.91 litres total fortified wine (with 16% v/v alcohol)

- (iv) After fortification, the fortified wine shall be tested by a standard method for its final alcohol content which shall not exceed  $16 \pm 0.3\%$  v/v.

**Note.-**

- (a) Excise Officer-in-Charge shall strictly monitor the stock of alcohol and its strength, its addition and timing of addition
- (b) Standard method: Refer BIS method IS 3752 – 2005.

**4. Amendment of rule 8-A.-** In rule 8-A of the said rules, in sub-rules (5) and (7), for the words “neutral spirit or rectified spirit or pure grape or fruit brandy”, the words “grape neutral spirit or grape spirit (matured for at least two years) or grain neutral spirit or neutral spirit” shall be substituted.

**5. Amendment of Form M.W.G.1.-** In form M.W.G.1 appended to the said rules, in serial number 5, in item D, for the words “Quantity of Sugar or Jaggery”, the words “Quantity of Sugar or Sugar Syrup” shall be substituted.

**6. Amendment of Form M.W.G.2.-** In form M.W.G.2 appended to the said rules,-

(i) in Condition (2), for the words “sugar or jaggery may be added before, during or after fermentation”, the words “Sugar or Sugar Syrup may be added prior to the start of wine fermentation” shall be substituted;

(ii) in Condition (3), for the proviso, the following shall be substituted, namely:-

“Provided that wine may be fortified with grape neutral spirit/grape spirit (matured for at least two years)/grain neutral spirit/neutral spirit to increase the alcoholic strength of wine which shall not exceed  $16 \pm 0.3\%$  v/v.”

(iii) in Condition (10), in item (a), in sub-item (i), for the words “Sugar or Jaggery”, the words “Sugar or Sugar Syrup” shall be substituted; and

(iv) in Condition (13), for the words and figures “The quantity taken for samples shall not exceed 500 ml in the case of the wine or other liquids or  $\frac{1}{2}$  kilo in case of semi-liquids. The licensee shall pay a fee of rupees five for each examination of sample made by the Chemical Analyst”, the words and figures “The quantity taken for samples shall not exceed 500 ml in the case of wine or other liquids, 500 gm in case of semi-liquids or solids. The licensee shall pay a fee of rupees one hundred for each examination of sample made by the Chemical Analyst” shall be substituted.

**7. Amendment of Form M.W.G.6.-** In form M.W.G.6 appended to the said rules,-

(i) for the words “neutral alcohol or rectified spirit”, the words and brackets “grape neutral spirit or grape spirit (matured for at least two years) or grain neutral spirit or neutral spirit” shall be substituted; and

(ii) for the words “neutral, alcohol or rectified spirit or pure grape or fruit brandy”, the words and brackets “grape neutral spirit / grape spirit (matured for at least two years)/ grain neutral spirit / neutral spirit” shall be substituted.

**8. Amendment of Form M.W.G.8.-** In form M.W.G.8 appended to the said rules, for the words “Neutral Alcohol/Rectified Spirit/pure grape/fruit brandy” wherever they occur, the words “Grape Neutral Spirit/Grape Spirit (matured for at least two years)/Grain Neutral Spirit/Neutral Spirit” shall be substituted.

By order and in the name of the Governor of Karnataka

**Venkatesh.G**  
Under Secretary to Government,  
Finance Department (Excise)

### NOTIFICATION-III

**No. FD 09 PES 2017, Bengaluru, Dated:19.07.2017**

The draft of the following rules further to amend the Karnataka Excise (Manufacture of Wine) Rules, 2008, which the Government of Karnataka proposes to make in exercise of the powers conferred by section 71 of the Karnataka Excise Act, 1965 (Karnataka Act 21 of 1966) is hereby published as required by sub-section (1) of the said section for the information of all persons likely to be affected thereby and notice is hereby given that the said draft will be taken up for consideration after fifteen days from the date of its publication in the official Gazette.

Any objections or suggestions which may be received by the State Government from any person in respect of the said draft before the expiry of the period specified above will be considered by the State Government. The objections or suggestions may be addressed to the Additional Chief Secretary to Government, Finance Department, Vidhana Soudha, Bengaluru 560001.

#### **DRAFT RULES**

**1. Title and commencement.-** (1) These rules may be called the Karnataka Excise (Manufacture of Wine)(Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

**2. Amendment of rule 2.-** In the Karnataka Excise (Manufacture of Wine) Rules, 2008, (hereinafter referred to as the said rules), in rule 2,-

(i) clause (3) shall be omitted;

(ii) clause (4) shall be omitted; and

(iii) for clause 9, and the entries relating thereto, the following shall be substituted, namely :

**"(9) "Wine"** means the fermented juice of ripe grapes with or without the addition of sugar or sugar syrup, containing self-generated alcohol not less than 7% v/v and 10% v/v for Bangalore Blue and wine variety grapes respectively.

**NOTE.-** Addition of sugar or sugar syrup is permitted only to the grape or fruit juice prior to the start of wine fermentation. Excise Officer-in-Charge shall strictly monitor the stock of sugar or sugar syrup, its addition and timing of addition."

**3. Amendment of Form F.W.2.** -In form F.W.2 appended to the said rules,-

(i) in Condition (2), for the words "Sugar or jaggery may be added before, during or after fermentation", the words "Sugar or Sugar syrup may be added prior to the start of wine fermentation" shall be substituted;

(ii) in Condition (4), for the words "Tables shall be computed to show contents at one centimetre of the depth of each receptacles", the words "Tables shall be computed to show contents at every one centimetre of the depth of each receptacles. The tables shall have the certification by the concerned authority of the Department of Legal Metrology" shall be substituted.

(iii) in Condition (8), after item (b), the following shall be inserted, namely:-

"(c) There shall be double locking system with one lock purchased by the Excise Officer-in-Charge to lock each compartment by the said Officer or an Excise staff designated by him. All the keys of the locks purchased by the said Officer shall always remain with the Excise Officer-in-Charge. As and when required by the licensee during the working hours of working days, the lock shall be opened by the Excise Officer-in-Charge or his designate and shall be locked when the work is over. The time of opening and locking shall be recorded in a register duly signed by the Excise Officer-in-Charge for each operation".

(iv) in Condition (10),

(i) in item (a), in sub-item (i), for the words "sugar or jaggery" the words "sugar or sugar syrup" shall be substituted.

(ii) in item (b), for the words "The licensee shall maintain day-to-day accounts showing therein the stock of wine, bases or "Must" in the manufactory at the end of each day", the words "The licensee shall maintain day-to-day accounts

showing therein the stock of wine, bases or "Must" and all other ingredients of wine in the manufactory at the end of each day" shall be substituted.

(v) in Condition (13), for the words and figures "The quantity taken for samples shall not exceed 500 ml in the case of the wine or other liquids or  $\frac{1}{2}$  kilo in case of semi-liquids. The licensee shall pay a fee of rupees five for each examination of sample made by the Chemical Analyst", the words and figures "The quantity taken for samples shall not exceed 500 ml in the case of wine or other liquids, 500 gm in case of semi-liquids or solids. The licensee shall pay a fee of rupees one hundred for each examination of sample made by the Chemical Analyst" shall be substituted.

**4. Amendment of Form F.W.3.-** In form F.W.3 appended to the said rules, in serial number (5), in the heading to item D, for the words "Quantity of Sugar or Jaggery", the words "Quantity of Sugar or Sugar syrup" shall be substituted.

By order and in the name of the Governor of Karnataka

**Venkatesh.G**  
Under Secretary to Government,  
Finance Department (Excise)



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೦, ೨೦೧೭ (ಅಷಾಡ್ ೨೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 20, 2017 (Ashada 29, Shaka Varsha 1939)	ನಂ. ೪೦೧ No. 701
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**OFFICE OF THE COMMISSIONER OF COMMERCIAL TAXES,**  
(Karnataka) Vanijya Terige Karyalaya, Gandhinagar, Bengaluru-560009

## NOTIFICATION

**No. KSA/GST/CR-7/2017-18, dated: 19.07.2017**

In exercise of the powers conferred by clause (b) of sub section (9) of section 25 of the Karnataka Goods and Services Tax Act, 2017 read with rule 17 of the Karnataka Goods and Services Tax Rules, 2017, it is hereby notified that ISRO Satellite Centre, Post Box No.1795, Old Airport Road, Vimanapura Post, BANGALORE – 560 017, Karnataka shall be granted a Unique Identity Number. The procedure prescribed under rule 17 of Karnataka Goods and Services Tax Rules, 2017 shall be followed for granting the Unique Identity Number.

Sd/-  
**RITVIK PANDEY**  
Commissioner of Commercial Taxes,  
(Karnataka), Bengaluru





# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೦, ೨೦೧೭ (ಆಷಾಡ್ ೨೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 20, 2017 (Ashada 29, Shaka Varsha 1939)	ನಂ. ೨೦೭ No. 702
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## REVENUE SECRETARIAT

### NOTIFICATION

No. RD 08 LGP 2015, Bengaluru, Dated: 20.07.2017

The draft of the following rules further to amend the Karnataka Land Revenue Rules, 1966 was published as required by sub-section (1) of section 197 of the Karnataka Land Revenue Act, 1964 (Karnataka Act 12 of 1964) in Notification No. RD 08 LGP 2015, dated: 30-06-2017, published in Part IV-A of the Karnataka Gazette dated: 30-06-2017 inviting objections or suggestions from all the persons likely to be affected thereby within fifteen days from the date of its publication in the Official Gazette.

Whereas the said Gazette was made available to the public on 30-06-2017.

And whereas no objections and suggestions have been received by the State Government within the period specified above.

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 197 of the Karnataka Land Revenue Act, 1964 (Karnataka Act 12 of 1964) the Government of Karnataka hereby makes the following rules to amend the Karnataka Land Revenue Rules, 1966, namely:-

### RULES

**1. Title and Commencement.**-(1)These rules may be called the Karnataka Land Revenue (Sixth Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the Official Gazette.

**2. Insertion of new rule 107 AA.**- In the Karnataka Land Revenue Rules, 1966 after rule 107-A, the following shall be inserted namely :-

**“107-AA. Levy of fine and compounding amount for conversion of Pot Kharab land belonging to land holder for non-agricultural use.**-The amount of fine which may be levied under section 97 in respect of diversion or use of “Pot Kharab” land belonging to land holder and held free of assessment on condition of being used for a specific non-agricultural purpose or otherwise to any other non-agricultural purpose and also the compounding amount, as the case may be, shall be twice the rates specified in the Tables under rules 107 and 107-A respectively.”

By order and in the name of the Governor of Karnataka

**S.L.MAHANTHEGOWDA**  
Under Secretary to Government,  
Revenue Department (Land Grants-1).





# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಸಭೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೦, ೨೦೧೭ (ಅಷಾಡ ೨೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 20, 2017 (Ashada 29, Shaka Varsha 1939)	ನಂ. ೪೦೨ No. 703
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## REVENUE SECRETARIAT

## NOTIFICATION

No. RD 13 LGP 2016(P-1), Bengaluru, Dated: 20.07.2017

The draft of the Karnataka Land Grabbing Prohibition Rules, 2017 which the Government of Karnataka, proposes to make in exercise of the powers conferred by sub-section (1) of section 18 of the Karnataka Land Grabbing Prohibition Act, 2011 (Karnataka Act 38 of 2014) was published as required by sub-section (1) of section 18 of the said Act in Notification No.RD 13 LGP 2016(P) dated: 23-02-2017 in Part IV-A of the Karnataka Gazette dated: 25-02-2017 for the information of all persons likely to be affected and notice was given that said draft will be taken into consideration after the expiry of fifteen days from the date of its publication in the official Gazette.

Whereas the said Gazette was made available to the public on 25-02-2017.

And whereas objections and suggestions received have been examined by the State Government.

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 18 of the Karnataka Land Grabbing Prohibition Act, 2011 (Karnataka Act 38 of 2014) the Government of Karnataka hereby makes the following rules,namely:-

## RULES

**1. TITLE AND COMMENCEMENT.**- (1) These rules may be called the Karnataka Land Grabbing Prohibition Special Court (Conditions of Service of Chairman and Members) Rules 2017.

(2) These rules shall deemed to have come into force from the date on which the Chairman and Members have assumed the charge of the office of the Karnataka Land Grabbing Prohibition Special Court

**2. DEFINITIONS.**- (1) In these rules unless the context otherwise requires the following, namely:-

- (a) **'Act'** means the Karnataka Land Grabbing Prohibition Act 2011 ( Karnataka Act 38 of 2014);
- (b) **'Chairman'** means the Chairman of the Karnataka Land Grabbing Prohibition Special Court;
- (c) **'Members'** means the members of the Karnataka Land Grabbing Prohibition Special Court;
- (d) **'Section'** means the Section of the Act;

- (e) '**Service**' means the service rendered by the Chairman, Judicial Members and Revenue Members on duty; and
- (f) '**Vacation**' means any period excluding the time during which the Chairman, Judicial Member and Revenue Members is absent on leave.

(2) Other words and expressions used in these rules and not defined, but defined in the Act shall have the same meaning respectively assigned to them in the Act.

**3. PAY.-** (1) The Chairperson, if he is a serving Judge shall be paid a salary and other admissible allowances equal to the salary and allowances of a sitting Judge of the High Court. If he is a retired Judge, he shall be paid a salary and other admissible allowances equal to the salary and allowances of a Judge of a High Court.

(2) A member who is a serving Judicial Member (District Judge), he shall be paid salary drawn in the cadre of District Judge immediately before his appointment as such. In case of retired District Judge appointed as such, he shall be paid a pay of Rs.1,50,000/- (One lakh fifty thousand Rupees only) per month after deduction of pension he is drawing out of the said pay.

(3) In respect of a serving Revenue Member who is an All India Service officer, he shall be paid the salary drawn in the post held by him immediately before his appointment as member. In case a retired officer is appointed as Revenue Member, he shall be paid a pay of Rs.1,50,000/- (One lakh fifty thousand Rupees only) per month after deduction of pension he is drawing out of the said pay.

Provided that if the chairperson or a Member, at the time of his appointment, is in receipt of or being eligible to receive any pension had elected to draw or receive the pension (other than disability or invalid pension) in respect of previous service as a Judge of a High court or District Judge or an All India Service officer in the service under the State, as the case may be, his salaries in respect of the service as the Chairperson or a Member of the Court as the case may be shall be reduced by the amount of that Pension and Pension equivalent of Gratuity. The Dearness allowance admissible on the Pension shall be kept in abeyance during the period he hold the post of Chairperson or Member as the case may be. He shall be entitled to Dearness allowance, HRA and CCA admissible from time to time as per rules on the pay admissible as above.

**4. LEAVE.-** (1) The chairman and Members shall be entitled to leave as follows:-

- (a) Casual leave of fifteen days and two Restricted Holidays in a calendar year;
- (b) Earned Leave at the rate of thirty days for every completed calendar year of service;
- (c) Half pay leave at the rate of twenty days for every completed calendar year of service; and
- (d) Extra ordinary Leave up to a maximum of one hundred eighty days in one term of office.

(2) On expiry of their terms of office, they shall be entitled to receive cash equivalent of leave salary in respect of earned leave to their credit subject to the condition that the maximum leave encashed from his term of office or at the time of retirement from previous service or taken together shall not in any case exceed three hundred days. The Chairman and Members shall also be entitled to receive the Dearness Allowance as admissible on the leave salary:

Provided that he shall not be entitled for the House Rent Allowance, City Compensatory allowance or any other allowance on such leave salary.

(3) If the Chairman and Member is unable to enjoy the full vacation on account of his occupation with the Special Court, he shall be entitled to add the un-enjoyed period of vacation to the leave account.

**Explanation:** For the purpose of this sub rule, 'vacation' means vacation of thirty days in each calendar year observed by the Special Court.

**5. LEAVE SANCTIONING AUTHORITY.-** (1) The Chairman shall intimate to the Government regarding his leave.

(2) The Chairman shall be the authority to sanction leave to the Members of the Special Court.

**6. LEAVE TRAVEL CONCESSION.-** The Chairman and Members of the Special Court shall be entitled to the leave travel concession as admissible to the Judges or officers of respective class serving under the State Government.

**7. TRAVELLING ALLOWANCE and DAILY ALLOWANCE.-** The Chairman and Members of the Special Court are entitled for TA and DA while on tour (including the journey undertaken to join the Special court or on expiry of his term with the Court to proceed to his home town) and entitled to charges for transportation of personal effects and other similar things and daily allowance as admissible to the Judges or officers of respective class serving under the State Government.

**8. SUBSCRIPTION TO GENERAL PROVIDENT FUND.-** The Chairman and Members of the Special Court shall be entitled to subscribe to the General Provident Fund.

**9. MEDICAL REIMBURSEMENT.-** (1) If a sitting or retired Judge of the High Court is appointed as Chairman of the Special Court, the reimbursement as applicable to the serving judges of the High Court of Karnataka subject to relaxation of the conditions stipulated vide G.O.No: DPAR 18 SHC 2011 (P) dated 25.6.2011 modified from time to time.

(2) If a serving or retired Judge of the District and Sessions Court is appointed as Judicial Member of the Special court, the reimbursement as applicable to the serving or retired judicial officers as admissible under the Karnataka Judicial Officers (Medical Attendance) Rule 2009.

(3) If a serving or retired All India Service officer is appointed as a Revenue Member, the reimbursement as applicable as per All India Officers (Medical Attendance) Rules to such officers.

**10. OFFICIAL CAR AND TELEPHONE FACILITY.-** The Chairman and Members of the Special Court shall be entitled to Official car and telephone facilities.

**11. ADDITIONAL PERQUISITES.-** During the term of the office as the Chairman and other Members of the Special court, the Chairman and Members shall be entitled to the following perquisites; namely:-

- (a) Sumptuary allowance;
- (b) Free water and Electricity;
- (c) Home orderly allowance;
- (d) Gardener allowance; and
- (e) Five News papers and Journals.

as applicable to Chairman and Members of the Karnataka Administrative Tribunal.

**12. MISCELLANEOUS.-** If any doubt arises about the interpretation of any of these provisions, the matter shall be referred to the Government of Karnataka.

By Order and in the name of the Governor of Karnataka

**S.L. MAHANTHE GOWDA**  
Under Secretary to Government,  
Revenue Department (Land Grants-1).



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಗುರುವಾರ, ಜುಲೈ ೨೦, ೨೦೧೭ (ಆಷಾಡ್ ೨೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Thursday, July 20, 2017 (Ashada 29, Shaka Varsha 1939)	ನಂ. ೧೦೪ No. 704
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ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳ ಸಚಿವಾಲಯ

ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ: ಸಂವ್ಯಾಜಿ 24 ಶಾಸನ 2017, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 20.07.2017

The Prevention of Cruelty to animals (Karnataka Amendment) Ordinance, 2017 ಇದಕ್ಕೆ 2017ರ ಜುಲೈ ೧೮ನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರ ಒಪ್ಪಿಗೆ ದೊರೆತಿದ್ದು, ಸಾಮಾನ್ಯ ತಿಳುವಳಿಕೆಗಾಗಿ ಇದನ್ನು 2017ರ ಕನಾಟಕ ಅಧ್ಯಾದೇಶ ಸಂಖ್ಯೆ: 01 ಎಂಬಾದಾಗಿ ಕನಾಟಕ ರಾಜ್ಯ ಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಬೇಕೆಂದು ಅದೇಶಿಸಲಾಗಿದೆ.

### KARNATAKA ORDINANCE NO. 01 OF 2017

#### THE PREVENTION OF CRUELTY TO ANIMALS (KARNATAKA AMENDMENT) ORDINANCE, 2017

(Promulgated by the Governor of Karnataka in the Sixty Eighth year of the Republic of India and First published in the Karnataka Gazette Extra-ordinary on the 20<sup>th</sup> day of July 2017)

An Ordinance further to amend the Prevention of Cruelty to Animals Act, 1960 (Central Act 59 of 1960) in its application to the State of Karnataka.

Whereas previous instructions of the President of India vide Order No:14/04/2017-Judl..& PP, dated:03.07.2017 has been obtained in this regard as required under the proviso to clause (1) of Article 213 of the Constitution.

Whereas the Karnataka State Legislative Assembly is not in session and the Governor of Karnataka is satisfied that the circumstances exist which render it necessary for him to take immediate action to promulgate the Ordinance for the purposes hereinafter appearing;

Now, therefore, in exercise of the powers conferred by clause (1) of Article 213 of the Constitution of India, the Governor of Karnataka is pleased to promulgate the following Ordinance, namely:-

**1. Short title and commencement.**— (1) This Ordinance may be called the Prevention of Cruelty to Animals (Karnataka Amendment) Ordinance, 2017.

(2) It shall come into force at once.

**2. Amendment of section 2.**— In section 2 of the Prevention of Cruelty to Animals Act, 1960 (Central Act 59 of 1960) (hereinafter referred to as the Principal Act),-

(i) after clause (a), the following shall be inserted, namely:-

**“(aa) “Bulls race or Bullock cart race”** means any form of bulls race including race of Bullock cart as a traditional sports involving Bulls whether tied to cart with the help of wooden yoke or not (in whatever name called) normally held as a part of tradition and culture in the state on such days and places, as may be notified by the State Government.”; and

(ii) after clause (d), the following shall be inserted, namely:-

**“(dd) “Kambala”** means the traditional sports event involving Buffalo’s (male) race normally held as a part of tradition and culture in the state on such days and places, as may be notified by the State Government.”

**3. Amendment of section 3.-** Section 3 of the principal Act, shall be re-numbered as sub-section (1) of that section and after sub-section (1) as so renumbered, the following sub-section shall be inserted, namely:-

“(2) Notwithstanding anything contained in sub-section (1) conduct of “Kambala” or “Bulls race or Bullock cart race” shall be permitted, subject to condition that no unnecessary pain or suffering is caused to the animals, by the person incharge of that animal used to conduct “Kambala” or “Bulls race or Bullock cart race” as the case may be and subject to such other conditions as may be specified, by the State Government, by notification.”

**4. Amendment of section 11.-** In section 11 of the principal Act, in sub-section (3), after clause (e), the following shall be inserted, namely:-

“(f) the conduct of “Kambala” with a view to follow and promote tradition and culture and ensure preservation of native breed of buffalos as also their safety, security and wellbeing.

“(g) the conduct of “Bulls race or Bullock cart race” with a view to follow and promote tradition and culture and ensure preservation of native breed of cattle as also their safety, security and wellbeing.”

**5. Amendment of section 22.-** In section 22 of the principal Act, at the end, the following proviso shall be inserted, namely:-

“Provided that nothing contained in this section shall apply to conduct of “Kambala” or “Bulls race or Bullock cart race” as the case may be.”

**6. Amendment of section 27.-** In section 27 of the principal Act, after clause (b), the following shall be inserted, namely:-

“(c) the conduct of “Kambala” with a view to follow and promote tradition and culture and ensure survival and continuance of native breeds of buffalos.

“(d) the conduct of “Bulls race or Bullock cart race” with a view to follow and promote tradition and culture and ensure survival and continuance of native breeds of cattle.”

**7. Insertion of new section 28A.-** After section 28 of the principal Act, the following shall be inserted, namely:-

**“28A. Savings in respect of "Kambala" or “Bulls race or Bullock cart race”.-** Nothing contained in this Act, shall apply to “Kambala” or “Bulls race or Bullock cart race” conducted to follow and promote tradition and culture and such conduct of “Kambala” or “Bulls race or Bullock cart race” shall not be an offence under this Act.”

**VAJUBHAI VALA  
GOVERNOR OF KARNATAKA**

By order and in the name of the Governor of Karnataka,

**K. DWARAKANATH BABU**  
Secretary to Government  
Department of Parliamentary Affairs



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಮಂಗಳೂರು, ಜುಲೈ ೨೫, ೨೦೧೭ (ಶ್ರಾವಣ ಓ, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Tuesday, July 25, 2017 (Shrawana 3, Shaka Varsha 1939)	ನಂ. ೪೧೦ No. 710
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ಕಾರ್ಮಿಕ ಸಚಿವಾಲಯ

ಅಧಿಸೂಚನೆ

ನಂ: ಕಾಜ 46 ಎಂಎಂಡಬ್ಲ್ಯೂ 2017, ಬೆಂಗಳೂರು ದಿನಾಂಕ: 22-07-2017

ಕನಿಷ್ಠ ವೇತನ ಕಾಯ್ದು, 1948ರ (XI ರ ಕೇಂದ್ರೀಯ ಕಾಯ್ದು 1948) ಕಲಂ 22-ಎಫ್ ರನ್ನು ಕನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರಕ್ಕೆ ಪ್ರದತ್ತವಾಗಿರುವ ಅಧಿಕಾರವನ್ನು ಚಲಾಯಿಸಿ, ಅನುಸೂಚಿತ ಉದ್ದಿಮೆಗಳ ಕೆಲಸದ ಸ್ವರೂಪ ಹಾಗೂ ಉದ್ಯೋಗಗಳಲ್ಲಿ ತೊಡಗಿರುವ ವ್ಯಕ್ತಿಗಳ ಹಕ್ಕುಗಳ ರಕ್ಷಣೆಯ ಉದ್ದೇಶದಿಂದ ಕನಿಷ್ಠ ವೇತನ ಕಾಯ್ದು, 1948 (XI ರ ಕೇಂದ್ರೀಯ ಕಾಯ್ದು 1948)ರ ಅನುಸೂಚಿತಯಲ್ಲಿ (ಭಾಗ-1 ಮತ್ತು ಭಾಗ-2 ಸೇರಿದಂತೆ) ಸೇರ್ವಿಸೆಂಬ್ರಿಯಾಗುವ ಎಲ್ಲಾ ಉದ್ದಿಮೆಗಳಿಗೆ ವೇತನ ಪಾವತಿ ಕಾಯ್ದು, 1936ರ (1936ರ ಕಾಯ್ದು 4) ಎಲ್ಲಾ ಪ್ರಾವಧಾನಗಳು ಅನ್ವಯವಾಗುವಂತಹ ಉದ್ದಿಮೆಗಳಿಂದು ಪರಿಗಣಿಸುವ ಈ ಕರಡು ಅಧಿಸೂಚನೆಯನ್ನು ಸರ್ಕಾರವು ಪ್ರಕಟಿಸಿರುತ್ತದೆ.

ಈ ಕರಡು ಅಧಿಸೂಚನೆಯಿಂದ ಬಾಧಿತರಾದ ವ್ಯಕ್ತಿಗಳು/ಉದ್ಯೋಗದಾತರು/ ಕಾರ್ಮಿಕ ಸಂಘಗಳು/ಉದ್ಯೋಗದಾತರ ಸಂಘಗಳು/ಕಾರ್ಮಿಕ ಒಕ್ಕೂಟಗಳು/ಉದ್ಯೋಗದಾತರ ಒಕ್ಕೂಟಗಳು/ ತಮ್ಮ ಲಿಖಿತ ಹೇಳಿಕೆಗಳನ್ನು/ಆಕ್ಷೇಪಣೆಗಳನ್ನು/ಸಲಹೆಗಳನ್ನು ಈ ಕರಡು ಅಧಿಸೂಚನೆಯು ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಗೊಂಡ ದಿನಾಂಕದಿಂದ ಮೂರು (3) ತಿಂಗಳೊಳಗಾಗಿ ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕನಾಟಕ ಸರ್ಕಾರ, ಕಾರ್ಮಿಕ ಇಲಾಖೆ, 4ನೇ ಮಹಡಿ, ವಿಕಾಸ ಸೌಧ, ಬೆಂಗಳೂರು-560 001 ಅಥವಾ ಕಾರ್ಮಿಕ ಆಯುಕ್ತರು, ಕಾರ್ಮಿಕ ಭವನ, ಡ್ರೆರಿ ಸರ್ಕಾರ ಹತ್ತಿರ, ಐಟಿಎ. ಆವರಣ, ಬಸ್ಸೇರುಫ್ಲ್ಟ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು: 560 029 ಈ ವಿಳಾಸಕ್ಕೆ ಸಲ್ಲಿಸಲು ಈ ಮೂಲಕ ಸರ್ಕಾರವು ಅವಕಾಶವನ್ನು ಕಲ್ಪಿಸಿರುತ್ತದೆ. ಈ ನಿಗದಿತ ಅವಧಿಯು ಮುಕ್ತಾಯಗೊಂಡ ನಂತರ ಸಲ್ಲಿಸಲಾಗುವ ಲಿಖಿತ ಹೇಳಿಕೆಗಳನ್ನು/ಆಕ್ಷೇಪಣೆಗಳನ್ನು/ಸಲಹೆಗಳನ್ನು ಸರ್ಕಾರವು ಪರಿಗಣಿಸುವುದಿಲ್ಲವೆಂದು ಈ ಮೂಲಕ ಸಂಬಂಧಿಸಿದವರೆಲ್ಲರಿಗೂ ತಿಳಿಯಪಡಿಸಿದೆ.

ಕನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ

ಎಲ್.ಎಸ್. ಶ್ರೀಕಂತಭಾಬು  
ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿ,  
ಕಾರ್ಮಿಕ ಇಲಾಖೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೨೬, ೨೦೧೭ (ಶ್ರವಣ ೪, ಶಕ ವರ್ಷ ೧೯೩೯)

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಬುಧವಾರ, ಜುಲೈ ೨೬, ೨೦೧೭ (ಶ್ರವಣ ೪, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Wednesday, July 26, 2017 (Shrawana 4, Shaka Varsha 1939)	ನಂ. ೫೧೧ No. 711
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**URBAN DEVELOPMENT SECRETARIAT  
NOTIFICATION**

**No. UDD 67 BemRuPra 2016, Bengaluru, Date: 25.07.2017**

Whereas the draft of the following regulations further to amend the Zoning Regulations of the approved Master Plan-2031 of Shivamogga-Bhadravathi by Government of Karnataka vide Order No: UDD 159 BemRuPra 2012, dated: 27.08.2012, which propose to make in exercise of the powers conferred under section 13-E of the Karnataka Town and Country Planning (Amendment) Act, 2004 (Karnataka Act 11 of 1963) in Notification No. UDD 67 BEMRUPRA 2016, dated: 11.01.2017 in Part IV-A of the Karnataka Gazette extraordinary Number 46 dated: 12<sup>th</sup> January 2017 inviting objections and suggestions from all persons likely to be affected thereby within thirty days from the date of its publication in the Official Gazette.

And whereas, the said Gazette was made available to the public on 12<sup>th</sup> January 2017.

And whereas, objections or suggestions have been received and considered by the Government;

Now, therefore, in exercise of the Powers conferred by Section 13-E of the Karnataka Town and Country Planning Act, 1961 (Karnataka Act 11 of 1963), the Government of Karnataka hereby makes the following regulations, namely:-

**REGULATIONS**

- Title and Commencement,-** (1) These regulations may be called the Zoning Regulations of the approved Master Plan-2031 of Shivamogga-Bhadravathi (Amendment) Regulations 2016.  
(2) They shall come into force from the date of publication in the Official Gazette.
- Amendment to Regulation No.7.6:-** In the said regulations, regulation No.7.6 shall be deleted.
- Amendment to Table No.9-6:- Space standards for various buildings / uses:-** In table No.9.6 for serial No.15, the following shall be substituted namely;

Sl. No.	Uses Common to all permissible zones	Min. road Width (in m)	Min. Area of plot (in Sq.m)
15	LPG Storages	15.0 (within conurbation area), 12.0 (outside conurbation area within LPA)	500

4. **Amendment to Regulation No.11.11:-** In the regulation No. 11.11(a)(5)(v) and (vii) of said regulations, the following shall be substituted, namely;
- “v. Commissioner, SUDA, Shivamogga Member Secretary”.
- “vii. Commissioner of respective CMC Member”.
5. **Amendment to Appendix 4:-** In the clause 4.3 of Appendix 4, the following shall be inserted, after “A Doctor’s degree in structural design from a recognised institute and at least one year experience in structural design work”, namely;
- “A Diploma in civil engineering recognised by technical board with at least ten years experience in building construction work may be considered for designing G+1 only”.

By order and in the name of the Governor of Karnataka,

**NAGARAJ**  
Under Secretary to Government,  
Urban Development Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

### ಬೆಂಗಳೂರು, ಶುಕ್ರವಾರ, ಜುಲೈ ೨೮, ೨೦೧೭ (ಶ್ರಾವಣ ೬, ಶಕ ವರ್ಷ ೧೯೩೯)

### ಬಿಂಬಿಕೆ ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶುಕ್ರವಾರ, ಜುಲೈ ೨೮, ೨೦೧೭ (ಶ್ರಾವಣ ೬, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Friday, July 28, 2017 (Shrawana 6, Shaka Varsha 1939)	ನಂ. ೫೧೮ No. 718
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#### URBAN DEVELOPMENT SECRETARIAT

#### NOTIFICATION

No. UDD 185 MLR 2015, Bengaluru, date: 28.07.2017

Whereas the draft Rules further to amend the Karnataka Municipal Corporations (Election) Rules, 1979, was published as Required by sub-section(1) of section 55 read with section 421 of the Karnataka Municipal Corporations Act, 1976 (Karnataka Act 14 of 1977) was published as Required by sub-section(1) of section 55 of this Act in Notification No. UDD 185 MLR 2015, Dated:26.09.2016 in part - IV-A No. 1133 of the Karnataka gazette extraordinary dated: 27<sup>th</sup> September 2016 for inviting objections and suggestions from all persons likely to be affected within 30 days from the date of publication of the said notification in the official gazette.

And whereas the said Gazette was made available to the public on 27<sup>th</sup> September 2016.

And whereas no objection and suggestion were received within the stipulated period.

Now therefore, in exercise of the powers conferred under sub-section(1) of section 55 read with section 421 of the Karnataka Municipal Corporations Act, 1976 (Karnataka Act 14 of 1977) the Government of Karnataka hereby makes the following rules, further to amend the Karnataka Municipal Corporations (Election) Rules, 1979, namely:-

#### RULES

**1. Title and Commencement:** (1) These rules may be called the Karnataka Municipal Corporations (Election) (Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

**2. Amendment of rule 17(A):-** In the Karnataka Municipal Corporations (Election) Rules, 1979 (hereinafter referred as the said rules), in rule 17(A), the existing provision shall be numbered as sub-rule (1) thereof, and after so numbered, the following shall be inserted, namely:-

“(2) The State Election Commission shall by notification publish a list of symbols of political parties which are registered or recognized in other State or other States”.

**3. Amendment of rule 18:-** In rule 18 of the said rules, after sub-rule (5), the following shall be inserted, namely:-

“(6) If a political party is a registered, recognized party in other State or States, and it is a political party which is not registered, recognized political party in Karnataka State, such party is

setup the candidates to contest the election in the State, the symbols allotted to the candidates of that party or parties in other State or States itself may be allotted, if they fulfill the following conditions even though that symbols were not in the list of free symbol, namely:-

- (a) The President of such parties shall submit a representation in writing to the State Election Commission by requesting to allot particular symbol to the candidates who are contesting from their parties, within three days from publication of calendar of events by the State Election Commission.
- (b) if more than one party which has been recognized in other states have chosen the same symbol as their reserved symbol of their party and such parties have submitted requisition for allotting the same symbol for their candidates, the State Election Commissioner shall allot the symbol to the candidates of such parties through lot. The candidates of other party or parties shall choose remaining any one of the free symbols.
- (c) the candidates shall declare in the nomination that which party has filed him as a candidate. In case anything contrary to this is found in the nomination or form 'C' or 'D' such candidate shall not be allotted the symbol reserved and such candidate shall be allotted a symbol by the election commissioner out of the list of free symbols.
- (d) It shall be satisfied by the Commission that there is no appropriate reason to reject the application. They shall not claim for allotment of the same symbol for any other election, conducted in future."

By order and in the name of Governor of Karnataka

**K.L. Bagalawade**  
Under Secretary to Government  
Urban Development Department



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

## ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶುಕ್ರವಾರ, ಜುಲೈ ೨೮, ೨೦೧೭ (ಶ್ರಾವಣ ೬, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Friday, July 28, 2017 (Shrawana 6, Shaka Varsha 1939)	ನಂ. ೪೮ No. 719
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### URBAN DEVELOPMENT SECRETARIAT

### NOTIFICATION

No. UDD 185 MLR 2015(1), Bengaluru, date: 28.07.2017

Whereas the draft Rules further to amend the Karnataka Municipalities (Election of Councilors) Rules, 1977, was published as Required by sub-section(1) of section 323 read with section 38 of the Karnataka Municipalities Act, 1964 (Karnataka Act 22 of 1964) is hereby, published as required by sub-section(1) of section 323 of this Act in Notification No. UDD 185 MLR 2015(1), Dated:08.11.2016 in part - IV-A No.1251 of the Karnataka gazette extraordinary dated:8<sup>th</sup> November 2016 for inviting objections and suggestions from all persons likely to be affected within 30 days from the date of publication of the said notification in the official gazette.

And whereas the said Gazette was made available to the public on 8<sup>th</sup> November 2016.

And whereas no objection and suggestion were received within the stipulated period.

Now therefore, in exercise of the powers conferred under sub-section(1) of section 323 read with section 38 of the Karnataka Municipalities Act, 1964 (Karnataka Act 22 of 1964) the Government of Karnataka hereby makes the following rules, further to amend the Karnataka Municipalities (Election of Councilors) Rules, 1977, namely:-

### RULES

**1. Title and Commencement:** (1) These rules may be called the Karnataka Municipalities (Election of Councilors) (Amendment) Rules, 2017.

(2) They shall come into force from the date of their final publication in the official Gazette.

**2. Amendment of rule 10.:-** In the Karnataka Municipalities (Election of Councilors) Rules, 1977 (hereinafter referred as the said rules), in rule 10, the existing provision shall be numbered as sub-rule (1) thereof, and after so numbered, the following shall be inserted, namely:-

“(2) The State Election Commission shall by notification publish a list of symbols of political parties which are registered or recognized in other State or other States”.

**3. Amendment of rule 11.:-** In rule 11 of the said rules, after sub-rule (5), the following shall be inserted, namely:-

“(6) If a political party is a registered, recognized party in other State or States, and it is a political party which is not registered, recognized political party in Karnataka State, such party is setup the candidates to contest the election in the State, the symbols allotted to the candidates of that party or parties in other State or States itself may be allotted, if they fulfill the following conditions even though that symbols were not in the list of free symbol, namely:-

(a) the President of such parties shall submit a representation in writing to the State Election Commission by requesting to allot particular symbol to the candidates who are

contesting from their parties, within three days from publication of calendar of events by the State Election Commission.

- (b) if more than one party which has been recognized in other states have chosen the same symbol as their reserved symbol of their party and such parties have submitted requisition for allotting the same symbol for their candidates, the State Election Commissioner shall allot the symbol to the candidates of such parties through lot. The candidates of other party or parties shall choose remaining any one of the free symbols.
- (c) the candidates shall declare in the nomination that which party has filed him as a candidate. In case anything contrary to this is found in the nomination or form 'C' or 'D' such candidate shall not be allotted the symbol reserved and such candidate shall be allotted a symbol by the election commissioner out of the list of free symbols.
- (d) It shall be satisfied by the Commission, that there is not appropriate reason to reject the application. They shall not claim for allotment of the same symbol for any other election, conducted in future."

By order and in the name of Governor of Karnataka

**K.L. Bagalawade**  
Under Secretary to Government  
Urban Development Department



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲು

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೨೯, ೨೦೧೭ (ಶ್ರಾವಣ ೨, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೪೭೦
Part-IVA	Bengaluru, Saturday, July 29, 2017 (Shrawana 7, Shaka Varsha 1939)	No. 720

PERSONNEL AND ADMINISTRATIVE REFORMS SECRETARIAT

## NOTIFICATION

NO: DPAR 168 SPS 2013 (I). BENGALURU, DATED: 29.07.2017.

The Notification No. I-14011/24/2017-IPS.I (I), dated: 21.07.2017 of Government of India, Ministry of Home Affairs, New Delhi is hereby republished:

No. I-14011/24/2017-IPS.I (I)  
Government of India  
Ministry of Home Affairs

New Delhi, dated: 21.07.2017.

## NOTIFICATION

In exercise of the provisions contained in sub-regulation (3) of Regulation 7 of the Indian Police Service (Appointment by Promotion) Regulations, 1955, the Union Public Service Commission has on 19.07.2017 approved the Select List of the year 2015 prepared by the Selection Committee in its meeting held on 04.07.2017, containing the names of the following 26 State Police Service Officers of Karnataka towards filling up of 36 vacancies in the Karnataka Cadre of Indian Police Service:-

### Select List-2015

S.No.	Name (S/Shri/Smt.)	Date of Birth
1.	Joshi Srinath Mahadev	21.07.1971
2.	Vedamurthy C.B.	20.07.1972
3.	Shantharaju K.M.	20.05.1974
4.	Hanumantharaya	08.04.1975
5.	Devaraja D.	10.06.1969
6.	Siri Gowri D.R.	24.06.1978
7.	Dr. Dharani Devi K	12.05.1967
8.	Savitha S	27.08.1969
9.	C.K. Baba	05.12.1976
10.*	Madhura Veena M.L.	12.12.1974
11.	Abdul Ahad	10.05.1977
12.	Girish S.	07.07.1975
13.	Puttamadaiah M.	05.06.1968
14.	Sreedhara T.	01.02.1971
15.	Ashwini M.	14.07.1978

16.	Prakash Gowda A.N.	20.04.1977
17.	Jinendra Khanagavi	24.03.1973
18.	Rashmi J.K.	22.06.1977
19.	Shivakumar T.P.	08.04.1975
20.	Vishnuvardhana N.	14.05.1979
21.*	Jagadish K.V.	06.04.1978
22.	Sanjeev M. Patil	19.12.1977
23.	Parashurama K.	18.03.1977
24.	Ananda Kumar H.D.	04.07.1971
25.	Kala Krishnaswamy	01.09.1977
26.*	Devaraju K.G.	19.05.1963

\* The names at S. No.s 10, 21, and 26 have been included in the List provisionally subject to clearance in the disciplinary proceedings pending against them and grant of integrity certificate by the State Government.

2. The Select List is subject to the outcome of the SLP © No. 29245/2016 filed by Shri Gopalakrishnah N. & Ors. before the Hon'ble Supreme Court and other connected SLPs arising out of Order dated 21.06.2016 of the Hon'ble High Court of Karnataka at Bengaluru in WP No. 27674/2012 filed by Shri Khaleel Ahmed K.R. and Ors. and OA No. 355-359/2016 filed by Smt Renuka K. Sukumar & Ors., OA No. 362-364/2016 filed by Shri Kumaraswamy & Anr. And OA No. 365-377/2016 filed by Dr. Shivakumar & Ors. before the Hon'ble Central Administrative Tribunal, Bangalore Bench.

Sd/-  
**S K Rastogi**  
 Deputy Secretary (Police)  
 Tele No. 2309 3256

BY ORDER AND IN THE NAME OF THE  
 GOVERNOR OF KARNATAKA

**S.R. BASAVARAJAIAH**  
 Under Secretary to Government,  
 Department of Personnel and  
 Administrative Reforms (Services-IV).

### **PERSONNEL AND ADMINISTRATIVE REFORMS SECRETARIAT**

#### **NOTIFICATION**

**No: DPAR 168 SPS 2013 (II). Bengaluru, Dated: 29.07.2017.**

The Notification No. I-14011/24/2017-IPS.I (II), dated: 21.07.2017 of Government of India, Ministry of Home Affairs, New Delhi is hereby republished:

No. I-14011/24/2017-IPS.I (II)  
 Government of India  
 Ministry of Home Affairs

New Delhi, dated: 21.07.2017.

#### **NOTIFICATION**

In exercise of the powers conferred by sub-rule (1) of rule 9 of the Indian Police Service (Recruitment) Rules, 1954, read with sub-regulation (1) of regulation 9 of the Indian Police Service (Appointment by Promotion) Regulations, 1955, the President is pleased to appoint the following members of Karnataka Police Service to the Indian Police Service on probation and to allocate them to the Karnataka Cadre under sub-rule (1) of the rule 5 of the Indian Police Service (Cadre) Rules, 1954 :-

**Select List-2015**

<b>S.No.</b>	<b>Name (S/Shri/Smt.)</b>	<b>Date of Birth</b>
1.	Joshi Srinath Mahadev	21.07.1971
2.	Vedamurthy C.B.	20.07.1972
3.	Shantharaju K.M.	20.05.1974
4.	Hanumantharaya	08.04.1975
5.	Devaraja D.	10.06.1969
6.	Siri Gowri D.R.	24.06.1978
7.	Dr. Dharani Devi K	12.05.1967
8.	Savitha S	27.08.1969
9.	C.K. Baba	05.12.1976
10.	Abdul Ahad	10.05.1977
11.	Girish S.	07.07.1975
12.	Puttamadaiah M.	05.06.1968
13.	Sreedhara T.	01.02.1971
14.	Ashwini M.	14.07.1978
15.	Prakash Gowda A.N.	20.04.1977
16.	Jinendra Khanagavi	24.03.1973
17.	Rashmi J.K.	22.06.1977
18.	Shivakumar T.P.	08.04.1975
19.	Vishnuvardhana N.	14.05.1979
20.	Sanjeev M. Patil	19.12.1977
21.	Parashurama K.	18.03.1977
22.	Ananda Kumar H.D.	04.07.1971
23.	Kala Krishnaswamy	01.09.1977

2. The appointments are subject to the outcome of the SLP © No. 29245/2016 filed by Shri Gopalakrishnah N. & Ors. before the Hon'ble Supreme Court and other connected SLPs arising out of Order dated 21.06.2016 of the Hon'ble High Court of Karnataka at Bangalore in WP No. 27674/2012 filed by Shri Khaleel Ahmed K.R. and Ors. and OA No. 355-359/2016 filed by Smt Renuka K. Sukumar & Ors., OA No. 362-364/2016 filed by Shri Kumaraswamy & Anr. And OA No. 365-377/2016 filed by Dr. Shivakumar & Ors. before the Hon'ble Central Administrative Tribunal, Bangalore Bench.

3. The aforesaid officers will remain on probation for one year as per rule of Indian Police Service (Probation) Rules, 1954 and the officers will obtain induction training as per sub rule 5(4) of Indian Police Service (Probation) Rules, 1954 as amended dated 10.05.2011.

4. The appointments will take effect from the date of issue of this notification.

Sd/-  
**S K Rastogi**  
 Deputy Secretary (Police)  
 Tele No. 2309 3256

BY ORDER AND IN THE NAME OF THE  
 GOVERNOR OF KARNATAKA

**S.R. BASAVARAJAIAH**  
 Under Secretary to Government,  
 Department of Personnel and  
 Administrative Reforms (Services-IV).



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಠ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೨೯, ೨೦೧೭ (ಶ್ರಾವಣ ೨, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Saturday, July 29, 2017 (Shrawana 7, Shaka Varsha 1939)	ನಂ. ೪೭೧ No. 721
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FINANCE SECRETARIAT

## CORRIGENDUM

**NO. FD 48 CSL 2017 BENGALURU, DATED: 29-07-2017.**

1. In the Notification No. FD 48 CSL 2017 (01/2017) dated 29<sup>th</sup> June, 2017 published in the Gazette of Karnataka, Extraordinary, Part IV A, No. 591, dated 29<sup>th</sup> June, 2017, -

- (1) In page 4, in Sl. No. 59 of Schedule I – 2.5%, in column (3), the figures “1106 10 90” shall be read as the figures “0713”.
- (2) In page 4, in Sl.No.61, of Schedule I – 2.5%, in column (2), the figures “1106 10 90” shall be read as the figures “0713”.
- (3) In page 5, in Sl.No.92, of Schedule I – 2.5%,
  - (a) in column (2), the figures “1702” shall be read as the figures and word “1702 or 1704” and
  - (b) in column (3), the words “Palmyra sugar” shall be read as the words “Palmyra sugar, mishri, batasha, bura”.
- (4) In page 8, in Sl.No.185, of Schedule I – 2.5%, in column (3), the word “Agarbatti” shall be read as the words “Agarbatti, lobhan”.
- (5) In page 9, in Sl.No.220, of Schedule I – 2.5%, in column (3),
  - (a)the word “saima” shall be read as the word “salma”,
  - (b)the word “gotasitara” shall be read as the words and comma “gota, sitara” and
  - (c) the word “glzal” shall be read as the word “gizai”.
- (6) In page 10, in Sl.No.234, of Schedule I – 2.5%, in column (3), after sub-entry (g), the words comma and brackets “(h) Photo voltaic cells, whether or not assembled in modules or made up into panels” shall be inserted.
- (7) In page 17, in Sl.No.14, of Schedule II – 6%, in column (3), after the words, “shelled or peeled” the words “and desiccated coconuts” shall be inserted.
- (8) In page 17, in Sl.No.16, of Schedule II – 6%, in column (3), the word “Dates” shall be read as the words and brackets “Dates (soft or hard)”.
- (9) In page 18, in Sl.No.56, of Schedule II – 6%, in column (3), the words and brackets “serial number 1(f)” shall be read as the words and brackets “serial number 1(g)”.
- (10) In page 19, in Sl.No.74, of Schedule II – 6%, in column (2), the figures “3302” shall be read as the figures “3301”.
- (11) In page 26, in Sl.No.231, of Schedule II – 6%, in column (3), the word and figures “heading 9208” shall be read as the words and figures “heading 9208 or 9705”
- (12) In page 29, in Sl.No.55, of Schedule III – 9%, in column (3), the words and brackets “(Fountain pen ink and Ball pen ink)” shall be read as the words and brackets “(other than Fountain pen ink and Ball pen ink)”.

- (13) In page 33, in Sl.No.133, of Schedule III – 9%, in column (3), the words “Artificial fur and articles thereof” shall be read as the words “Artificial fur other than articles thereof”.
- (14) In page 37, in Sl.No.233, of Schedule III – 9%, in column (3), the words “Sewing needles” shall be omitted.
- (15) In page 38, in Sl.No.247, of Schedule III – 9%, in column (3), the figures and letters “0.12.5 mm” shall be read as the figures and letters “0.15 mm”.
- (16) In page 40, in Sl.No.323, of Schedule III – 9%, in column (2), the figures “8522 90” shall be read as the figures“8422 90”.
- (17) In page 44, in Sl.No.395, of Schedule III – 9%, in column (3), the words “Optical Fiber” shall be read as the words “Optical Fibre Cable”.
- (18) In page 47, in Sl.No.447, of Schedule III – 9%, in column (3), the words “and other pens” shall be omitted.
- (19) In page 55, in Sl.No.158, of Schedule IV – 14%, in column (3), the words “optical fibres optical fibres, bundles or cables” shall be read as the words “optical fibres, optical fibre bundles or cables”.
- (20) In page 55, in Sl.No.161, of Schedule IV – 14%, in column (3), the words “Optical Fiber” shall be read as the words “Optical Fibre Cables”.
- (21) In page 58, in Sl.No.215, of Schedule IV – 14%, in column (3), the words “Video games consoles and Machines” shall be read as the words, brackets, commas and figures “Video games consoles and Machines, article and accessories for billiards [9504 20 00], other games operated by coins, banknotes, i.e., casino games [9504 20 00] and others [other than board games of 9504 90 90]”

2. In the Notification No. FD 48 CSL 2017 (02/2017) dated 29<sup>th</sup> June, 2017 published in the Gazette of Karnataka, Extraordinary, Part IV A, No. 592, dated 29<sup>th</sup> June, 2017,-

- (1) In page 3, in Sl. No. 59 of the Schedule, in column (2), the figure “9” shall be read as the figures, comma and the word “7,9 or 10”.
- (2) In page 5, in Sl.No.102 of the Schedule, in column (2), the figure “2302” shall be read as figures and comma “2301, 2302”.

By order and in the name of the Governor of Karnataka,

**K.S.PADMAVATHI**  
Under Secretary to Government,  
Finance Department (C.T.-1).



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರಿಕೆ

ಭಾಗ-IVA	ಬೆಂಗಳೂರು, ಶನಿವಾರ, ಜುಲೈ ೨೯, ೨೦೧೭ (ಶ್ರವಣ ೨, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೪೭೫
Part-IVA	Bengaluru, Saturday, July 29, 2017 (Shrawana 7, Shaka Varsha 1939)	No. 723

## CO-OPERATION SECRETARIAT

### NOTIFICATION

NO. CO 123 CLM 2016 BENGALURU, DATED: 29.07.2017.

Whereas the draft of the Karnataka Cooperative Societies (Amendment) Rules, 2016, was published as required by sub-section (1) of section 129 of the Karnataka Co-operative Societies Act, 1959 (Karnataka Act No. 11 of 1959) in notification No. CO 123 CLM 2016, dated: 12.01.2017 in part IV-A of the Karnataka Gazette Extraordinary dated: 13.01.2017 inviting objections and suggestions from all persons likely to be affected thereby within thirty days from the date of its publication on Official Gazette.

And whereas the said Gazette was made available to the public on 13.01.2017.

And whereas objections and suggestions received in this behalf have been considered by the State Government.

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 129 of the Karnataka Co-operative Societies Act, 1959 (Karnataka Act No. 11 of 1959) the Government of Karnataka hereby makes the following rules, namely:-

### RULES

**1. Title and commencement.-** (1) These rules may be called the Karnataka Co-operative Societies (Amendment) Rules, 2017.

(2) They shall come into force from the date of their publication in the Official Gazette.

**2. Amendment of rule 2.-** In the Karnataka co-operative societies Rules, 1960 (hereinafter referred to as the said rules) in rule 2,-

(a) after clause (b) the following shall be inserted, namely,-

**"(e-1)** "Jurisdictional Registrar" means the Additional/Joint/Deputy/ Assistant Registrar as under section 2A of the Act."

(b) after clause (g) the following shall be inserted, namely:-

**"(g-1)** "Sahakara Academy (Reg.),Mysore" means the academy registered under the Karnataka Societies Registration Act, 1960 and sponsored by the State Government"

(c) In clause (i-1) for the words "district/region/state election officer" the words "election officer for such area"

**3. Substitution of expression.-** In the said rules, for the words "District Election Officer" wherever they occurs, the words, "Election Officer" shall be substituted.

**4. Amendment of rule 13B.-** In rule 13B of the said rules, in sub-rule (4) in clause (a) the words "if he is in service" shall be omitted.

**5. Amendment of rule 13D.-** In rule 13D of the said rules,-

- (a) in sub-rule (2), the words "and the date and place of election" shall be omitted;
- (b) for sub-rule (3), the following shall be substituted, namely :-
  - "(3) The Election Officer shall take steps for publication of voters list in the following manner, namely:-
  - (a) for publication of draft eligible electoral list, a list of defaulters, a list of members whose repayment falls due, before the election date clear fifty days;
  - (b) for calling objections, if any, calling upon the defaulter members to repay the amounts due to the cooperative societies on or before thirty clear days prior to the date of election.
  - (c) the scrutiny and verification of the voters list after payment by defaulters etc., clear twenty days before the date of election.
  - (d) for publication of final eligible voters list before fifteen clear days prior to the date of election."

**6. Amendment of rule 13E.-** In rule 13E of the said rules in sub-rule (2),-

- (a) at the end of clause (i) the following shall be inserted, namely:- "in consultation with the respective cooperative society relating to date and place of election";
- (b) in clause (iii), after the word, "directors", the words, "including casual vacancies, as the case may be" shall be inserted;
- (c) in clause (iv), in sub-clause (b), after the words, and bracket mark "constituency" the word, "as" shall be inserted.

**7. Amendment of rule 14L.-** In rule 14L of the said rules, for sub -rule (2) for the following shall be substituted, namely:-

"(2) The serial number of the ballot paper shall be printed on the left hand side of the counter foil."

**8. Amendment of rule 14AG,-** In rule 14AG of the said rules, after sub-rule (6), the following shall be inserted, namely:-

"(6A) The quorum for a meeting of the board convened under sub rule(6) shall be fixed at the number next to fifty percent of the strength of the board."

**9. Insertion of rule 14AKK:-** After rule 14AK of the said rules the following shall be inserted, namely:-

**"14-AKK: No Confidence Motion.-** (1) A written notice hereinafter called a no-confidence notice, with intention to take up or move no-confidence motion, signed by not less than one third of elected members of the board along with a copy of the proposed motion shall be delivered in person to the chief executive of the society. A copy of the said notice shall be sent to the jurisdictional Registrar.

(2) The chief executive of the society shall send a communication to the jurisdictional Registrar within seven days of the receipt of notice of no-confidence motion.

(3) The jurisdictional Registrar shall within seven days, authorize an officer not below the rank of a senior inspector of cooperative societies hereinafter called as authorized officer for this purpose to preside over the meeting of the board called to consider no-confidence motion and conduct all further proceedings in this behalf.

(4) The authorized officer shall give a notice of not less than fifteen clear days of such meeting to all elected members of the board.

(5) The notice shall clearly state the place, date, time and agenda of the meeting.

(6) The service of notice may be effected to the elected members of the board in any of the following manner, namely:-

- (a) by giving or tendering it to such person; or
- (b) by sending it to their address through registered post;

(7) The quorum for such meeting shall be the number next to fifty percent of the elected members of the board. All the members attending the meeting shall sign in the book kept for the purpose before commencement of the meeting. The authorized officer shall preside over the meeting. If within one hour after the time fixed for the meeting, the quorum is not formed, the meeting shall stand cancelled and the notice issued as per sub-rule (4) shall stand cancelled.

(8) Save as otherwise provided in the Act or these rules, a meeting of the board convened for the purpose of considering a no-confidence motion under sub-rule (4) and (5) shall not for any reason be adjourned.

(9) As soon as the meeting commences, the authorized officer shall read out to the members of the board, the motion for consideration for which the meeting has been convened and shall put it to vote without any debate.

(10) The votes shall be taken by secret ballot and the elected members of the board shall record their votes in the ballot papers supplied to them.

(11) If the motion is carried, with the support of not less than 2/3<sup>rd</sup> of the elected members present in the meeting the authorized officer shall declare the result and draw up the proceedings accordingly and sign and handover a copy of the proceedings to the chief executive of the society and a copy to be displayed on the notice board of the society and communicate the same to the jurisdictional Registrar.

(12) Immediately after the motion is carried as per sub-rule (11) above, the office – bearer or bearers as the case may be, shall not discharge any functions and shall be deemed to have vacated his or her or their office forthwith.

(13) The chief executive of the society shall take action for the election of the office bearers as per section 29E and 29F. The person/persons so elected shall hold office, for the remaining period of the term of his or her or their predecessor/predecessors as the case may be.

**10. Amendment of rule 17.-** In rule 17 of the said rules, in sub rule (2), for item (A) and (B) the following shall be substituted, namely:-

***"A. Prescribing Minimum Qualifications:-***

**(i) Recruitment:** (a) The minimum educational qualification for recruitment to various posts in a co-operative society shall be as under, namely:-

<b>Category of Posts</b>	<b>Minimum Qualification</b>
(1) Chief Executive	<ul style="list-style-type: none"> <li>(i) Must have passed any Bachelor Degree from an University established by law in India;</li> <li>(ii) Must have studied Kannada as one of the languages in SSLC or an equivalent examination;</li> <li>(iii) Must have undergone basic Computer Operations and Applications course from an institution recognized by the Government; and</li> <li>(iv) Preference shall be given to person with a degree in co-operation from a University established by Law in India.</li> </ul>
(2) First Division Assistant	<ul style="list-style-type: none"> <li>(i) Any Degree from any University established by law in India;</li> <li>(ii) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently; and</li> <li>(iii) Knowledge of Computer operations and Applications.</li> </ul>

(3) Second Division Assistant	(i) A pass in II P.U.C. (ii) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently; and (iii) Knowledge of Computer operations and Applications.
(4) Stenographers	(i) A pass in II P.U.C. or a pass in three years Diploma in Commercial Practice; (ii) A pass in Senior Kannada / English Short hand having the knowledge of Computer Operations and applications; (iii) A pass in senior Kannada / English Typewriting having the knowledge of Computer Operations and Applications; and (iv) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently.
(5) Typists/Data Entry Operator/ Computer Operator	(i) A pass in II P.U.C. or a pass in three years Diploma in Commercial Practice; (ii) A pass in Senior Kannada / English Typewriting having the knowledge of Computer Operations and applications; and (iii) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently.
(6) Computer Programmer	A degree in Bachelor of Computer application from university established by Law.
(7) Accountant/ Accounts Assistant.	(i) A Degree in Commerce / Cooperation/ Management from any University established by law in India; (ii) A pass in Certificate Course in Tally with knowledge of Computer Operations and Applications; and (iii) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently.
(8) Sales Assistant	(i) A pass in II P.U.C. (ii) Knowledge of Kannada with ability to read, write, understand and speak Kannada fluently; and (iii) Knowledge of Computer Operations and applications
(9) Driver	(i) A pass in SSLC with Kannada as one of the languages; (ii) Must have a valid Driving License.
(10) Attender	A pass in SSLC with Kannada as one of the languages.

**(ii) Promotion.-** (a) An employee of any cooperative society who has the minimum qualification prescribed for direct recruitment to the post currently held by him and who has put in a satisfactory service of at least five years in the post held by him shall be eligible for being considered for promotion to the higher post:

"Provided that, no employee of the society shall be promoted to the next higher post, if he has not successfully completed Higher Diploma in Co-operative Management (HDCM) / Diploma in Cooperative Banking Management (DCBM) / Diploma in Urban Co-operative Banking Management (DUCBM) / General Diploma in Co-operative Management (GDC)/ Diploma in Co-operative Management (DCM) conducted by the recognised Institutes."

(b) The Board of a Cooperative Society shall depute each employee of the cooperative society to Higher Diploma in Co-operative Management (HDCM) / Diploma in Co-operative Banking Management (DCBM)/Diploma in Urban Co-operative Banking Management (DUCBM)/General Diploma in Co-operative Management (GDC)/ Diploma in Co-operative Management (DCM) and no exemption shall be granted by the board in attending and completing the course."

(2) in sub-rule (4) for the words, "engage persons", the words, "engage Second Division Assistant or equivalent and below cadre posts with the approval of the Registrar" shall be substituted.

**11. Amendment of rule 17A.**- In rule 17A of the said rules,-

(a) in sub-rule (1) in the table, in item (iv) after the words, "One expert", the words, "other than the director of the co-operative society" shall be inserted.

(b) in sub-rule (2) the following shall be inserted at the end, namely:- "including the Registrar of Co-operative Society or his nominee."

**12. Amendment of rule 18.**- For rule 18 of the said rules, the following shall be substituted, namely:-

**"18. The method of recruitment and conditions of services of the employees of a co-operative society,-**

**(1) Appointment by direct recruitment:-**

(a) No appointment by direct recruitment shall be made except by calling for applications from eligible candidates by notifying the same in at least in more than one Kannada news paper having wide circulation in the area of operation of the co-operative society. However, a co-operative society having a taluka and above area of operation and any co-operative bank shall notify the same at least in more than one Kannada news paper having wider circulation and in an English newspaper.

Provided that the above said rules shall not apply to:-

(i) the appointment of an officer whose services have been lent by the Government;

(ii) the filling up of a post through compassionate appointment as per rules;

(b) The board shall constitute a recruitment/selection committee for recruitment/promotion whenever the need arises as per rule 17A.

(c) **For recruitment to the posts of Second Division Assistant and above:**- The written test shall carry 200 marks consisting of Kannada Language for 50 marks, General English for 25 marks, General Knowledge for 25 marks, Co-operation matters for 50 marks, the Constitution of India for 25 marks and the subject relevant to the objectives and activities of the society for 25 marks. The candidates shall be called upon to take written test in the ratio of 1:20 of the total notified posts, based on the percentage of marks obtained in the qualifying examinations prescribed for the posts. The candidates successful in the written test shall be called for interview in the ratio of 1:5 based on the percentage of marks obtained in the written test or technical test prescribed for the posts. The marks obtained in the written test or technical test shall be reduced to 85% and the interview shall carry 15 percent of marks.

(d) For recruitment to the posts of Computer Programmer, Data Entry Operator, Stenographer and Typist, proficiency tests in their respective fields shall be preferred. The written test shall carry 200 marks consisting of Kannada Language for 50 marks, General English for 25 marks, General Knowledge for 25 marks and Computer test and Shorthand or typing as the case may be for 100 marks. The candidates shall be called upon to take written test in the ratio of 1:20 of the total notified posts, based on the percentage of marks obtained in the qualifying examinations prescribed for the posts. The candidates successful in the written test shall be called for interview in the ratio of 1:5 based on the percentage of marks obtained in the written test prescribed for the posts. The marks obtained in the written test shall be reduced to 85% and the interview shall carry 15 percent of marks.

(e) For recruitment to the posts of Drivers and Group-D services, the candidate shall be called upon for interview in the ratio of 1:5 based on the percentage of marks in the qualifying examination prescribed for the posts. The marks obtained in the qualifying examination shall be reduced to 85% and the interview shall carry 15 percent of marks.

(f) The marks obtained in the written test/technical tests/ qualifying examinations as per sub-rule (c), (d) and (e) of this rule shall be reduced to 85% and the marks obtained after such reduction and the marks obtained in the interview shall be added together and a merit list of the successful candidates shall be prepared on the basis of the total marks obtained in the written tests/technical tests/qualifying examinations and the interview together. A select list shall be prepared following the reservation policy to the extent applicable on the basis of the merit list.

(g) The chief executive shall issue the appointment order after the approval of the select list by the board. However, no process of recruitment shall be initiated during the last three months immediately prior to the expiry of the term of office of the board of any co-operative society.

**(2) Age limit for appointment by direct recruitment.**- (1) Every candidate for appointment by direct recruitment to any post in the services of a co-operative society must have attained the age of eighteen years and not attained the age of ,-

(i) forty years in the case of a person belonging to the Scheduled Castes or Scheduled Tribes or catetgory-1 of other Backward Classes;

(ii) thirty eight years in the case of a person belonging to any of the other Backward classes;

**Explanation:** For the purpose of this clause (ii) "other Backward class" means category of persons other than the Scheduled Castes and Scheduled Tribes classified as 2-A, 2-B, 3-A and 3-B for recruitment purposes.

(iii) thirty five years in the case of others; on the last date fixed for the receipt of the application

**(3) Appointment on compassionate grounds.**-

Notwithstanding anything contained in sub-rule (2), the maximum age limit for appointment shall be deemed to be enhanced by ten years in the case of a widow or widower of a deceased male or female employee of a cooperative society.

Provided that the following shall be eligible for appointment on compassionate grounds in the case of a deceased male employee of a co-operative society; namely:-

(i) the widow; or

(ii) a son, if the widow is not eligible or for any valid reason, she is not willing to accept the appointment; or

(iii) an unmarried daughter, if the widow and son are not eligible or for any valid reason, they are not willing to accept the appointment.

Provided further that, the following shall be eligible for appointment on compassionate grounds in the case of a deceased female employee of a co-operative society; namely-

(i) a son; or

(ii) an unmarried daughter, if the son is not eligible or for any valid reason, he is not willing to accept the appointment; or

(iii) a widower, if the son and daughter are not eligible or for any valid reason, they are not willing to accept the employment.

**(4) Conditions of Service.**- (i) **Age of retirement** - The date of retirement on superannuation of an officer or employee of any co-operative society shall be the last day of the month during which he attains the age of sixty years.

Provided that the date of retirement of an officer or employee of co-operative society whose date of birth is the first day of a month shall be the afternoon of the last day of the month preceding the month in which he attains the age of 60 years.

(ii) **Voluntary retirement** - Any employee of a cooperative society can opt for voluntary retirement from the service of the society after he completes fifteen years of satisfactory service or attains the age of fifty years:

Provided that, scheme of voluntary retirement shall be provided in the bye-law of the society.

**(5) Other service conditions:** The rules governing leave facility, gratuity, conduct and discipline of employees of co-operative societies shall be as provided in their bye-laws.

**13. Amendment of rule 29B.**- In rule 29B of the said rules,-

(a) after sub-rule (6), the following proviso shall be inserted, namely:-

"Provided that the need to post Auditor of the Department of Co-operative Audit shall be decided by the Government on receiving a recommendation to the effect from the General Body of a co-operative society."

**14. Amendment of rule 29D.**- For rule 29D of the said rules, the following shall be substituted namely:-

**"29D. Submission of the Audit Report of an Apex Society to the Government.**- For the purposes of sub-section (11) of Section 63, the Chief Executive of the Apex Co-operative society shall submit required copies of the audit report of the Apex Co-operative Society through the Director of Co-operative Audit to the State Government to lay before the State Legislature."

**15. Amendment of rule 30.**- In rule 30 of the said rules,-

(i) for the words, "payable to an Auditor or Auditing Firm for auditing", the words, "or cost payable to an Auditor or Auditing Firm or to the audit staff conducting concurrent or final audit of" shall be substituted.

(ii) after rule 30, the following proviso shall be inserted, namely;- "Provided that every Co-operative Society, where the Government decides to post audit staff for concurrent and final audit of accounts, shall pay audit cost in accordance with the provisions of rule 441 of the Karnataka Civil Services Rules."

**16. Amendment of rule 30A.**- In rule 30A of the said rules, after the words, "failing to pay the remuneration", the words, "or audit cost" shall be inserted.

**17. Amendment of rule 31.**- In rule 31 of the said rules, in sub-rule (2), for the words, "Civil Court", the words, "under Section 70 of the Act." shall be substituted.

**18. Insertion of rule 31A.**- After rule 31 of the said rules, the following shall be inserted, namely:-

**"31A.** No cooperative society shall spend any money out of the funds of the co-operative society for legal matters relating to Sections 17, 28A(5), 29C, 30, 31, 69, and 106 of any of its members and directors."

**19. Amendment of rule 33.**- In rule 33 of the said rules, , after clause (o), the following shall be inserted, namely.-

"(p) the liquidator shall obtain prior permission from the jurisdictional Registrar for incurring any expenditure beyond fifteen thousand in a month other than for salary, rent and stationery expenditure."

**20. Amendment of the rule 53A:** - In rule 53A of the said rules, in sub-rule (1) and (2), after the words, "Section 66", the words, "or Section 31A" shall be inserted.

**21. Amendment of the Annexure.** - In the Annexure to the said rules,-

- (a) items B, F and I shall be omitted;
- (b) in item H for the words "KMF" the words, "Karnataka State Cooperative Milk Federation or Additional Registrar of Cooperative Societies or Joint Registrar of Cooperative Societies from the Department of Co-operation" shall be substituted;
- (c) after item I, the following shall be inserted, namely:-

**"J. In respect of Karnataka State Cooperative Marketing Federation Limited**

Name of the Post	Method of recruitment
Chief Executive	On deputation of an I.A.S. cadre officer from the Government or Officer not below the rank of Additional Registrar of Co-operative Societies from the Department of Cooperation.

**K. In respect of Karnataka State Horticulture Cooperative Federation Limited.**

Name of the Post	Method of recruitment
Chief Executive	Deputation of an officer not below the rank of Joint Director of Horticulture from Horticulture Department or Joint Registrar of Co-operative Societies from the Department of Cooperation as the case may be.

**L. In respect of Karnataka State Cooperative Coir Federation Limited**

<b>Name of the Post</b>	<b>Method of recruitment</b>
Chief Executive	Deputation of an officer not below the rank of Joint Director, Industries and Commerce or Joint Registrar of Co-operative Societies from the Department of Cooperation as the case may be.

**M. In respect of Karnataka State Cooperative Oil Federation Limited**

<b>Name of the Post</b>	<b>Method of recruitment</b>
Chief Executive	An officer of the Federation or deputation of an officer not below the rank of Additional Registrar of Co-operative Societies from the Department of Cooperation.

**N. In respect of Karnataka State Cooperative Federation Limited**

<b>Name of the Post</b>	<b>Method of recruitment</b>
Chief Executive	Deputation of an officer not below the rank of Additional Registrar of Co-operative Societies from the Department of Cooperation.

”

BY ORDER AND IN THE NAME OF THE  
GOVERNOR OF KARNATAKA,

**M. VENKATASWAMY**

Officer on Special Duty & Ex-officio  
Deputy Secretary to Government,  
Co-operation Department.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಷ್ಟ ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-IVA	ಬೆಂಗಳೂರು, ಸೋಮವಾರ, ಜುಲೈ ೩೧, ೨೦೧೭ (ಶ್ರಾವಣ ೯, ಶಕ ವರ್ಷ ೧೯೩೯)	ನಂ. ೪೭೪
Part-IVA	Bengaluru, Monday, July 31, 2017 (Shrawana 9, Shaka Varsha 1939)	No. 724

ನಗರಾಭಿವೃದ್ಧಿ ಸಚಿವಾಲಯ

ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ:ನಾಲ್ಕು ೦೩ ಎಂಎಲ್‌ಆರ್ 2017(ಭಾಗ) ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 31.7.2017.

ಕರ್ನಾಟಕ ಮುನಿಸಿಪಲ್ ಕಾರ್ಪೊಲೇಷನ್ (ಬುನಾವಣೆ) ನಿಯಮಾವಳಿಗಳು 1979ರ 68ನೇ ನಿಯಮದೊಂದಿಗೆ ಓದಲಾದ 1976ರ ಕರ್ನಾಟಕ ಮುನಿಸಿಪಲ್ ಕಾರ್ಪೊಲೇಷನ್ ನಿಯಮಗಳ ಅಧಿನಿಯಮ (1977ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ:14)ರ 32ನೇ ಪ್ರಕರಣದ ಉಪಬಂಧಗಳಿಗೆ ಅನುಸಾರವಾಗಿ ದಿನಾಂಕ: 02-07-2017 ರಂದು ನಡೆದ ಉಪಕುನಾವಣೆಯಲ್ಲಿ ಮೈಸೂರು ಮಹಾನಗರಪಾಲಿಕೆಯ ವಾದ್ಯ ನಂ.32ಕ್ಕೆ ಈ ಕೆಳಕಂಡ ಅಭ್ಯರ್ಥಿಯು ಆಯ್ದುಯಾಗಿದ್ದು, ಸದರಿ ಅಭ್ಯರ್ಥಿ ಹೆಸರನ್ನು ಈ ಮೂಲಕ ಸಾರ್ವಜನಿಕ ಮಾಹಿತಿಗಾಗಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ಕ್ರ. ಸಂ.	ಅಯ್ದುಯಾದ ಅಭ್ಯರ್ಥಿಯ ಹೆಸರು ಮತ್ತು ವಿಳಾಸ
ವಾದ್ಯ ನಂ 32ರ ಸದಸ್ಯರ ಸಾಫ್ಟನ್‌ಕೆ	
1	ಶ್ರೀ ಎಸ್.ಬಿ.ಎಂ. ಮಂಜು, ನಂ. 2603, 2ನೇ ಕ್ರಾಸ್, ಕಾಳಿದಾಸ ರಸ್ತೆ, ಒಂಟಕೊಪ್ಪಲು, ಮೈಸೂರು-570002.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆಜ್ಞಾನುಸಾರ  
ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಕೆ.ಎಲ್. ಬಾಗಲವಾಡೆ  
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,  
ನಗರಾಭಿವೃದ್ಧಿ ಇಲಾಖೆ.



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು  
ಬೆಂಳಿಗೆ ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಸೋಮವಾರ, ಜುಲೈ ೩೧, ೨೦೧೭ (ಶ್ರಾವಣ ೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 31, 2017 (Shrawana 9, Shaka Varsha 1939)	ನಂ. ೪೭೫ No. 725
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ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳ ಸಚಿವಾಲಯ  
ಅಧಿಸೂಚನೆ

ಸಂಖ್ಯೆ: ಸಂವ್ಯಾತ 40 ಶಾಸನ 2016, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 31.07.2017

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ) ವಿಧೇಯಕ, 2017ಕ್ಕೆ 2017ರ ಜುಲೈ ತಿಂಗಳ 28ನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರ ಒಪ್ಪಿಗೆ ದೊರೆತಿದ್ದು, ಸಾಮಾನ್ಯ ತಿಳುವಳಿಕೆಗಾಗಿ ಇದನ್ನು 2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 39 ಎಂಬುದಾಗಿ ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಬೇಕೆಂದು ಆದೇಶಿಸಲಾಗಿದೆ.

**2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 39**

(2017ರ ಜುಲೈ ತಿಂಗಳ ಮೂವತ್ತೊಂದನೇ ದಿನಾಂಕದಂದು ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪತ್ರದ ವಿಶೇಷ ಸಂಚಿಕೆಯಲ್ಲಿ ಮೊದಲು ಪ್ರಕಟಿಸಾಗಿದೆ)

**ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ)  
ಅಧಿನಿಯಮ, 2017**

(2017ರ ಜುಲೈ ತಿಂಗಳ ಇಪ್ಪತ್ತಿಂಟನೇ ದಿನಾಂಕದಂದು ರಾಜ್ಯಪಾಲರಿಂದ ಅನುಮತಿಯನ್ನು ಪಡೆಯಲಾಗಿದೆ)

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ ಅಧಿನಿಯಮ, 2009ನ್ನು ತಿದ್ದುಪಡಿ ಮಾಡಲು ಒಂದು ಅಧಿನಿಯಮ.

ಇಲ್ಲಿ ಇನ್ನುಮುಂದೆ ಕಂಡುಬರುವ ಉದ್ದೇಶಗಳಾಗಿ ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ ಅಧಿನಿಯಮ, 2009ನ್ನು (2009ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 25) ತಿದ್ದುಪಡಿ ಮಾಡುವುದು ಯುಕ್ತವಾಗಿರುವುದರಿಂದ;

ಇದು, ಭಾರತ ಗಣರಾಜ್ಯದ ಅರವತ್ತಿಂಟನೇ ವರ್ಷದಲ್ಲಿ ಕರ್ನಾಟಕ ರಾಜ್ಯ ವಿಧಾನಮಂಡಲದಿಂದ ಈ ಮುಂದಿನಂತೆ ಅಧಿನಿಯಮಿತವಾಗತಕ್ಕದ್ದು:-

**1. ಸಂಕ್ಷಿಪ್ತ ಹೆಸರು ಮತ್ತು ಪ್ರಾರಂಭ.-** (1) ಈ ಅಧಿನಿಯಮವನ್ನು ಕನಾರ್ಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 ಎಂದು ಕರೆಯತಕ್ಕದ್ದು.

(2) ಇದು ಈ ಕೊಡಲೇ ಜಾರಿಗೆ ಬರತಕ್ಕದ್ದು.

**2. 12ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.-** ಕನಾರ್ಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ ಅಧಿನಿಯಮ, 2009ರ (2009ರ ಕನಾರ್ಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 25) (ಇಲ್ಲಿ ಇನ್ನುಮುಂದೆ ಮೂಲ ಅಧಿನಿಯಮವೆಂದು ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ) 12ನೇ ಪ್ರಕರಣದ (5)ನೇ ಉಪಪ್ರಕರಣದಲ್ಲಿ “ಅರವತ್ತೇಂದು ವರ್ಷ” ಎಂಬ ಪದಗಳಿಗೆ “ಅರವತ್ತೇಳು ವರ್ಷ” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

**3. 49ನೇ ಪ್ರಕರಣದ ತಿದ್ದುಪಡಿ.-** ಮೂಲ ಅಧಿನಿಯಮದ 49ನೇ ಪ್ರಕರಣದ (3)ನೇ ಉಪಪ್ರಕರಣದಲ್ಲಿ “ರಾಜ್ಯ ಲೆಕ್ಕಪತ್ರಗಳ ಇಲಾಖೆಯ ನಿಯಂತ್ರಕರು” ಎಂಬ ಪದಗಳಿಗೆ “ಪ್ರಥಾನ ನಿರ್ದೇಶಕರು, ಕನಾರ್ಟಕ ರಾಜ್ಯ ಲೆಕ್ಕಪರಿಶೋಧನ ಮತ್ತು ಲೆಕ್ಕಪತ್ರಗಳ ಇವರು” ಎಂಬ ಪದಗಳನ್ನು ಪ್ರತಿಯೋಜಿಸತಕ್ಕದ್ದು.

ಕನಾರ್ಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

ಕೆ. ದ್ವಾರಕನಾಥ್ ಬಾಬು  
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿ,  
ಸಂಸದೀಯ ವ್ಯವಹಾರಗಳ ಇಲಾಖೆ



# ಕರ್ನಾಟಕ ರಾಜ್ಯಪತ್ರ

ಅಧಿಕೃತವಾಗಿ ಪ್ರಕಟಿಸಲಾದುದು

ಬೆಂಗಳೂರು ರಾಜ್ಯ ಪತ್ರ

ಭಾಗ-IVA Part-IVA	ಬೆಂಗಳೂರು, ಸೋಮವಾರ, ಜುಲೈ ೩೧, ೨೦೧೭ (ಶ್ರಾವಣ ೯, ಶಕ ವರ್ಷ ೧೯೩೯) Bengaluru, Monday, July 31, 2017 (Shrawana 9, Shaka Varsha 1939)	ನಂ. ೪೭೬ No. 726
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PARLIAMENTARY AFFAIRS SECRETARIAT

NOTIFICATION

NO. SAMVYASHAE 40 SHASANA 2016, Bengaluru, dated: 31.07.2017

Ordered that the translation of ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 39) in the English language, be published as authorised by the Governor of Karnataka under clause (3) of Article 348 of the constitution of India in the Karnataka Gazette for general information.

The following translation ಕರ್ನಾಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗಾಬಾಯಿ ಹಾನಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕರ್ನಾಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ: 39) in the English language is published in the Official Gazette under the authority of the Governor of Karnataka under clause (3) of Article 348 of the Constitution of India.

## KARNATAKA ACT NO.39 OF 2017

(First Published in the Karnataka Gazette Extra-ordinary on the Thirty-first day of July, 2017)

### THE KARNATAKA RAJYA DR. GANGUBAI HANGAL SANGEETHA MATTU PRADARSHAKA KALEGALA VISHWAVIDYALAYA (AMENDMENT) ACT, 2017

(Received the assent of the Governor on the twenty-eighth day of July, 2017)

An Act to amend the Karnataka Rajya Dr. Gangubai Hangal Sangeetha Mattu Pradarshaka Kalegala Vishwavidyalaya Act, 2009.

Whereas it is expedient to amend the Karnataka Rajya Dr. Gangubai Hangal Sangeetha Mattu Pradarshaka Kalegala Vishwavidyalaya Act, 2009 (Karnataka Act No. 25 of 2009) for the purposes hereinafter appearing;

Be it enacted by the Karnataka State Legislature in the sixty-eighth year of the Republic of India, as follows:-

**1. Short title and commencement.**- (1) This Act may be called the Karnataka Rajya Dr. Gangubai Hangal Sangeetha Mattu Pradarshaka Kalegala Vishwavidyalaya (Amendment) Act, 2017.

(2) It shall come into force at once.

**2. Amendment of section 12.**- In the Karnataka Rajya Dr. Gangubai Hangal Sangeetha Mattu Pradarshaka Kaledala Vishwavidyalaya Act 2009, (Karnataka Act No. 25 of 2009) (hereinafter referred to as the principal Act), in section 12, in sub-section (5), for the words "sixty five years", the words "sixty seven years" shall be substituted.

**3. Amendment of section 49.**- In section 49 of the principal Act, in sub-section (3), for the words "Controller of State Accounts", the words "Principal Director, Karnataka State Audit and Accounts" shall be substituted.

The above translation of ಕನಾರ್ಟಕ ರಾಜ್ಯ ಡಾ॥ ಗಂಗೂಬಾಯಿ ಹಾಸಗಲ್ ಸಂಗೀತ ಮತ್ತು ಪ್ರದರ್ಶಕ ಕಲೆಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ (ತಿದ್ದುಪಡಿ) ಅಧಿನಿಯಮ, 2017 (2017ರ ಕನಾರ್ಟಕ ಅಧಿನಿಯಮ ಸಂಖ್ಯೆ 39) be published in the Official Gazette under clause (3) of Article 348 of the Constitution of India.

**VAJUBHAI VALA  
GOVERNOR OF KARNATAKA**

By Order and in the name of the Governor of Karnataka,

**K. DWARAKANATH BABU**  
Secretary to Government  
Department of Parliamentary Affairs